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AN UPDATED CATALOG OF 318 SOCIAL SURVEYS OF  
RESIDENTS' REACTIONS TO ENVIRONMENTAL NOISE  
(1943-1989) (Georgia  
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**AN UPDATED CATALOG OF 318 SOCIAL SURVEYS OF  
RESIDENTS' REACTIONS TO ENVIRONMENTAL NOISE  
(1943-1989)**

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## SUMMARY

This report identifies all social surveys of residents' reactions to environmental noise in residential areas which have been described in English language publications from 1943 to 1989. A total of 318 surveys are described. The surveys are indexed by country, noise source and date of survey. The publications and reports from each survey are listed in a bibliography. Twenty-four surveys are listed which are available for secondary analysis from a data archive.

## INTRODUCTION

Social surveys have been widely used since the early 1960's to assess the impact of environmental noise in residential areas. These surveys have usually measured impact on each surveyed individual (respondent) with some type of standardized questionnaire. These questionnaires have usually been personally administered by an interviewer in the home. In most studies, environmental noise levels have either been measured or estimated for each respondent's residence.

The results from these surveys have not been utilized to their full potential. The large number of surveys and publications may have contributed to their underutilization. Researchers find it difficult to locate relevant publications and, once located, find it difficult to determine which surveys are being referred to in the publications. This catalog of social surveys of environmental noise contributes to a fuller utilization by identifying the surveys and their publications.

This report attempts to identify all social surveys of residents' reactions to environmental noise in residential areas which have been described in English language publications through December of 1989. A total of 318 surveys are described. The catalog was compiled with the goal of providing readers with access to all English language information about residents' responses to environmental noise. An attempt has been made to include both well-known and obscure publications and reports. Foreign surveys are included even if the only English publication is an English language translation of a foreign language report. Some surveys from English speaking countries have been included even though they have only appeared in unpublished reports. In spite of the effort to be broadly inclusive some surveys from English speaking countries are not included which have only appeared in Master theses or in reports which could not be located. Surveys from other countries have been excluded which have not been described in an English language publication. Some surveys which have been briefly mentioned in publications are not included in the catalog if basic information about the sample size, study location or study design has not been published.

A large number of published and unpublished sources were examined to identify surveys. Nine of the most important sources are the following: Journal of Sound and Vibration (Vols. 1-135), Journal of the Acoustical Society of America (Vols. 1-86), Noise Control (All issues), Sound (All issues), Noise Control Engineering (Vols. 1-33), INTERNOISE Proceedings (through 1989), NOISE-CON proceedings (through 1988), a Wyle report on social surveys (Wyle, 1977) and an article reviewing surveys (Schultz, 1978).

Some social surveys have also been conducted of reactions to noise in the workplace. The present catalog, however, only concerns the residential environment.

This catalog replaces and expands upon a previous NASA catalog of 200 surveys published through 1980 (Fields, 1981). With only a few exceptions, the original 200 surveys appear in the present catalog in the same form as they did in the previous catalog.

The first section of this report consists of the descriptions of the 318 surveys. These descriptions are ordered alphabetically by country. Later sections consist of indices in which the studies are ordered by noise source, country, data of survey and survey identification number. A bibliography of all of the associated publications and reports is provided. A listing is also provided of the 24 surveys which have been deposited in the ESRC Data Archive at the University of Essex, United Kingdom.

## DESCRIPTION OF INFORMATION IN CATALOG

Each survey's entry in the catalog consists of a basic description and a list of the study's publications and reports. Although each description is brief, it provides enough information to positively identify the survey and the primary characteristics of the survey design. Although information is sometimes provided about study findings under the "Notes" heading, this catalog does not provide a systematic summary of study findings. Most studies have multiple findings. Any summary of these findings would have involved arbitrary judgements and have prohibitively increased the resources required for this catalog without relieving most readers of the necessity of consulting study reports.

Each study's entry consists of nine items of information:

Survey Identification Number: Each entry begins with a two-part alphanumeric code. The first part is three letters which identify the country. The second part is a serial number from 001 to 318 which uniquely identifies the survey. (The three letters are only attached as an aid in locating the survey within the catalog). The first 177 serial numbers are approximately ordered by survey date.

Title: Each survey is identified with a unique, descriptive title. Any other widely used title for the survey follows in parentheses. The terms "pilot" or "preliminary" are used only when the authors used the terms. Some "pilot" surveys are larger than other "main" surveys.

Date: The dates given are the years and, if known, months in which the social survey data were obtained from respondents. Associated noise measurement programs, if any, may have been conducted during a different time period.

Source: The major sources of noise which are explored in the survey questionnaire are listed. All surveys are listed by their major noise sources in the noise source index. The four most often studied noise sources are aircraft, road traffic, railway and community noise. Other less frequently studied sources are grouped under the headings of sonic boom, impulsive noise, interior noise, industrial noise, construction noise and miscellaneous. The "community" category is often not precisely defined and includes some studies which use a vague phrase such as "noise in this neighborhood" without clearly specifying the source.

Place: The country and city or airport where the survey was conducted are named.

Sample size (N=): This is the number of questionnaires used in the survey analyses. For studies in which some respondents were reinterviewed, the number of respondents is reported separately. Sample size information is usually presented separately for any supplementary studies of special groups (eg. complainants).

Noise: When noise exposure levels at respondents' residences were available, the level of grouping of the noise estimate is indicated. If one-decibel or finer distinctions are made, the noise level is labeled "continuous". No attempt has been made to evaluate the quality of the noise level information.

Report: The authors and dates of all known reports and publications are listed for each study. The complete reference for each publication is included in the bibliography section of this report. The availability of English translations is noted in the bibliography. Preliminary reports and short papers presented at professional meetings are included even though other reports are more complete. Publications which contain only discussions or reviews of previously published work are not usually included.

Notes: Information is presented about any unusual aspects of the survey. A comment is included if the survey departs from the modal methodology in which residents' opinions were obtained at a single point in time through face-to-face interviews using a fixed-format, interviewer-administered questionnaire. Any unusual aspects of the surveys are described. Close linkages with other studies are noted. Where the study has been previously listed by Schultz (Schultz, 1978) this is noted. Findings are briefly noted for some surveys.

## SURVEY CATALOG

The surveys are ordered by the full six-character, alpha-numeric identifier. As a result, surveys are grouped by country. Most multi-national surveys are reported separately for each country. In a few instances, however, a single catalog entry is made for the multi-national survey. In those instances, the survey is cross-listed under all of the countries in the country index.

The catalog begins on the next page.

CATALOG

- AUL-036 1969 Sydney Airport Noise Survey  
 Date: 1969  
 Source: Aircraft  
 Place: Australia: Sydney Airport  
 N=: 296 main sample (20 complainants interviewed)  
 Noise: Available  
 Report: Mather, 1971  
 Notes: The study includes a separate subsample of 20 complainants.
- AUL-209 1979 Hornsby Rifle Range Survey  
 Date: 1979 (November)  
 Source: Rifle Range  
 Place: Australia: Hornsby (Suburb of Sydney)  
 N=: 201  
 Noise: Available (continuous)  
 Report: Bullen and Hede, 1982; Bullen and Hede, 1983b; Hede and Bullen, 1981; Hede and Bullen, 1982b  
 Notes: Alternative noise indices for assessing residents' responses to shooting ranges are evaluated.
- AUL-210 1980 Australian Five-Airport Survey  
 Date: 1980 (February to August)  
 Source: Aircraft  
 Place: Australia: Five airports (Sydney, Adelaide, Perth, Melbourne and Richmond Air base)  
 N=: 3575  
 Noise: Available (continuous)  
 Report: Bullen and Hede, 1983a; Bullen and Hede, 1983b; Bullen and Hede, 1986; Bullen, Hede and Kyriacos, 1986; Hede and Bullen, 1982a  
 Notes: Noise indices are assessed. Personal, demographic, and attitudinal factors which affect annoyance are identified.
- AUL-211 1979 Sydney Airport Study of Type of Noise Reactions  
 Date: 1979 (June)  
 Source: Aircraft  
 Place: Australia: Sydney airport  
 N=: 100
- Noise: Available (continuous)  
 Report: Hede, 1980; Hede, Bullen and Rose, 1979  
 Notes: Annoyance is the main component in reaction to aircraft noise, but other reactions are also important.
- AUL-214 1978 Leichhardt Municipality Complaint Comparison Survey  
 Date: 1978 (October, November)  
 Source: Community  
 Place: Australia: Leichhardt Municipality in Sydney  
 N=: 148  
 Noise: Not available  
 Report: Avery, 1982  
 Notes: The sample survey data are compared with telephone complaints from the same area. The complaints underestimated the annoyance rates and do not correctly rank order the annoyance from different noise sources.
- AUL-226 1974 Brisbane S-E Freeway Study  
 Date: 1974 (August, September)  
 Source: Expressway traffic  
 Place: Australia: Residents near a 2 km section of a freeway  
 N=: 288  
 Noise: Available (continuous) for 142 respondents  
 Report: Brown, 1980a; Brown and Law, 1976; Brown and Law, 1978  
 Notes: Only a narrow range of low noise levels (52 to 65 dB(A)  $L_{eq}$ ) are included.
- AUL-227 1975-76 Australian Three-City Roadway Study  
 Date: 1975 (October to December), 1976 (April, May)  
 Source: Road traffic  
 Place: Australia: 19 areas near roads in Brisbane, Sydney, and Melbourne  
 N=: 818  
 Noise: Available (continuous)  
 Report: Brown, 1978; Brown, 1980b

CATALOG (Continued)

Notes: NONE

AUL-244 1979 Sydney Airport Pilot Study

Date: 1979  
Source: Aircraft  
Place: Australia: Sydney airport  
N=: 160  
Noise: Available for nominal NEF zones  
Report: Hede, 1980  
Notes: This was a pilot study for the 1980 Australian Five-Airport Survey (AUL-210).

AUL-247 Victoria Australia Entertainment Center Study

Date: 1984 Publication (Survey date not reported)  
Source: Entertainment noise  
Place: Australia: Victoria (residents near hotels, large music venues, restaurant, roller skating rink, reception center, recording studio)  
N=: 27  
Noise: Available (Measurements were made during the interview both inside and outside.)  
Report: Parris, 1984  
Notes: Residents also rated the noise during ten minutes of their interviews.

AUL-248 1983 Melbourne, Australia Simon and Garfunkel Concerts

Date: 1983 (February)  
Source: Outdoor concerts by Simon and Garfunkel  
Place: Australia: Melbourne  
N=: 442  
Noise: Available for regions around the concert site  
Report: Parris, 1984  
Notes: Residents of the area were interviewed by telephone in the three evenings following the concerts.

AUL-249 1983 Melbourne, Australia David Bowie Concert

Date: 1983 (November)  
Source: Outdoor concert by David Bowie

Place: Australia: Melbourne

N=: 402

Noise: Available for regions around the concert site

Report: Parris, 1984

Notes: Residents of the area were interviewed by telephone in the three evenings following the concert.

AUL-264 1980 Brisbane Traffic Noise Reduction Survey

Date: 1980 (November) to 1981 (April)  
Source: Road traffic  
Place: Australia: Three locations in Brisbane  
N=: 152 (Most analyses exclude 11 new in-migrants.)  
Noise: Available (continuous)  
Report: Brown, Hall and Kyle-Little, 1985  
Notes: Three groups of residents are compared: (1)49 experimental group residents living where the noise level had decreased by approximately 10 dB(A)  $L_{10}$  (12hr) following the opening of a bypass, (2)40 residents living at noise levels matching the experimental group noise levels and (3)52 residents living at noise levels matching the experimental group's before-change noise levels. This was part of a broader study of all environmental forces associated with living near a roadway. Part of the questionnaire was interviewer-administered and part was left for the respondent to complete.

AUL-265 1980 Brisbane Traffic Noise Increase Survey

Date: 1980 (October), 1981 (May), 1982 (June)  
Source: Road traffic  
Place: Australia: One roadway in Brisbane  
N=: 20 (60 interviews)  
Noise: Available (continuous)  
Report: Brown, 1987

CATALOG (Continued)

Notes: All 20 respondents were interviewed two weeks before the traffic increased and at 7 and 19 months after the increase.

AUL-285 1986 Australian National Noise Survey

Date: 1986 (February)  
Source: Community  
Place: Australia: National survey  
N=: 2332  
Noise: Not available  
Report: Community Response..., 1988  
Notes: The six noise questions in this general-purpose, national omnibus survey found that noise is one of the most serious pollution problems in residential communities. Traffic noise and domestic noise are the biggest problems.

AUL-286 1986 Brisbane Noise Survey

Date: 1986 (March to May)  
Source: Community, Road traffic, Aircraft  
Place: Australia: Brisbane (27 sites spread over 6 noise area categories)  
N=: 1,350  
Noise: Not available (Sites classified by type of noise area using density of transportation and extent of commerce and industry)  
Report: Duhs, Eddington and Renew, 1988  
Notes: Road traffic noise is the most often mentioned noise problem. The study utilizes a probability sample.

AUL-287 1986 Toowoomba Community Noise Survey

Date: 1986 (May to December), 1987  
Source: Community  
Place: Australia: Toowoomba  
N=: 600 (Approximate)  
Noise: Not available (Sites classified by type of noise area using density of transportation and extent of commerce and industry)  
Report: Eddington and Eddington, 1988

Notes: Road traffic noise is the most annoying noise in all types of noise areas. The probability sample was drawn from 6 strata based on noise contours.

AUL-306 1988 New South Wales Power Station Survey

Date: 1988 (Winter)  
Source: Power station  
Place: Australia: Two power station sites in New South Wales  
N=: 301 respondents in 12 areas  
Noise: Available (continuous)  
Report: Job and Hede, 1989  
Notes: The response to power plant noise is similar to the reaction to aircraft noise at the same noise level in a previous study (AUL-210).

AUL-307 198? Sydney Aircraft/Road traffic survey

Date: 1989 Publication (Survey date not reported)  
Source: Aircraft, Road traffic  
Place: Australia: near Sydney airport  
N=: 420 (Approximate)  
Noise: Available (continuous)  
Report: Lawrence and Putra, 1989  
Notes: Aircraft noise annoyance is affected by road traffic noise levels. Face-to-face interviews were conducted with 110 residents. Approximately 300 respondents were surveyed with a mail questionnaire.

AUS-014 1964 Vienna Road Traffic Noise Survey

Date: 1964  
Source: Road traffic, aircraft, railway, trolleys  
Place: Austria: Vienna  
N=: 400 (265 residents, 100 office workers, 35 teachers)  
Noise: Available for road traffic  
Report: Bruckmayer and Lang, 1967  
Notes: Annoyance was the same in residences and offices at the same

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noise levels and thus the two types of ratings are not separated in the published tables. All respondents were employees or otherwise associated with the Vienna Technological Industrial Museum. The data were discussed in a multisurvey comparative analysis (Schultz, 1978).

AUS-093 1973 Vienna Road Traffic Noise Survey

Date: 1973  
Source: Road traffic  
Place: Austria: Vienna  
N=: 2624  
Noise: Available  
Report: Lang, 1975; Lang, 1976; Lang, 1977; Lang, 1978  
Notes: Respondents are more annoyed if their most important rooms are on the noisy side of the house. These data were included in a multisurvey, comparative analysis (Schultz, 1978).

AUS-178 1977 Austrian Road Traffic Survey

Date: 1977  
Source: Road traffic  
Place: Austria: 49 measurement points in both rural and urban areas  
N=: 462  
Noise: Available  
Report: Lang, 1978; Lang, 1980  
Notes: Respondents in rural areas were more likely to be in single family homes, to have gardens, to be along highways, and to be less annoyed by noise than urban respondents at the same noise levels.

BEL-107 Preliminary Leuven Traffic Noise Survey

Date: 1976 Publication (Survey date not reported)  
Source: Road traffic  
Place: Belgium: Leuven  
N=: 247  
Noise: Available

Report: Gambart, Myncke and Cops, 1976  
Notes: The survey was conducted to design two traffic noise surveys (BEL-122, BEL-137).

BEL-122 1975 Antwerp Traffic Noise Survey

Date: 1975 (May to October)  
Source: Road traffic  
Place: Belgium: Antwerp  
N=: 1319  
Noise: Available  
Report: Cops, Myncke, Gambart and Steenackers, 1978; Myncke, Cops and Gambart, 1977; Myncke, Cops and Steenackers, 1977; Myncke, et al., 1977  
Notes: Respondents who volunteered to take part on the basis of a request letter (about 14% response rate) filled out a self-completion questionnaire. The study is quite similar to the 1976 Brussels study (BEL-137). Some questions were different in the two questionnaires. These data were cited in a multisurvey, comparative analysis (Schultz, 1978).

BEL-137 1976 Brussels Traffic Noise Survey

Date: 1976 (May to October)  
Source: Road traffic  
Place: Belgium: Brussels  
N=: 494  
Noise: Available  
Report: Myncke, Cops and Gambart, 1977; Myncke, Cops and Steenackers, 1977; Myncke, Cops et al., 1977  
Notes: Respondents who volunteered to take part on the basis of a request letter (9% response rate) filled out a self-completion questionnaire. The study is quite similar to the 1975 Antwerp study (BEL-122). Some questions were different in the two questionnaires. These data were cited in a multisurvey, comparative analysis (Schultz, 1978).

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BEL-151 1977-78 Belgium Four-Airport Noise Survey

Date: 1977, 1978  
Source: Aircraft  
Place: Belgium: Four airports (Helchteren, Grimbergen, Deurne, Middelkerke)  
N=: 150  
Noise: Available (continuous)  
Report: Myncke and Cops, 1978  
Notes: The four airports include one military airfield, one general aviation airport and two airports with both commercial and general aviation movements.

BEL-288 1980's Brussels International Airport Noise Survey

Date: 1980 (June to November), 1986 (February, March)  
Source: Aircraft  
Place: Belgium: Brussels (clusters around 11 measurement locations)  
N=: 677 (1,400 were asked to participate)  
Noise: Available (continuous)  
Report: Jonckheere, 1984; Jonckheere, 1987; Jonckheere, 1988; Jonckheere, 1989; Jonckheere and Swalens, 1981  
Notes: In 1980, 540 residents from the 1000 sampled addresses participated. Residents at rural sites are somewhat less likely to be affected.

CAN-055 1971 Dorval Aircraft Noise Survey

Date: 1971 (June to August)  
Source: Aircraft  
Place: Canada: Dorval Airport in Montreal  
N=: 1000  
Noise: Available (appears to be continuous)  
Report: Community Reaction to Airport Noise, 1972  
Notes: Interviews were completed with approximately 800 randomly selected residents and with subsamples of approximately 150 specially identified complainants

and 150 anti-noise organization members.

CAN-076 1972 London and Woodstock Community Noise Survey

Date: 1972-1973  
Source: Community  
Place: Canada: London and Woodstock (Ontario)  
N=: 800  
Noise: Available  
Report: Foreman and Dickinson, 1973; Foreman, Emmerson and Dickinson, 1974  
Notes: Two forms of the questionnaire were used to study methodological issues.

CAN-077 1972 Edmonton Community Noise Survey

Date: 1972 (Summer and early Fall)  
Source: Community  
Place: Canada: Edmonton  
N=: 4214  
Noise: Noise measurements are not analyzed in conjunction with the interviews  
Report: Bolstad Engineering Associates, 1973  
Notes: The questionnaires were divided between 1201 personal interviews and 3013 self-administered questionnaires.

CAN-078 1972 Calgary Noise Survey

Date: 1972 (February to October)  
Source: Community, Aircraft, Railway  
Place: Canada: Calgary  
N=: 1081  
Noise: Available (continuous)  
Report: Dunn and Jones, 1975; Dunn and Posey, 1974; Dunn, Hanington, Wilk, Wilson and Dunn, 1985; Jones, Li, and McKee, 1973  
Notes: Self-administered questionnaires were used for the "winter" (N=504) and "summer" surveys (N=226). A different questionnaire was used for the personal, face-to-face interviews (N=351). In

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addition to the residential data, information was collected in hospitals, nursing homes, schools and shopping areas.

CAN-079 1972 Toronto Community Noise Survey

Date: 1972 (March, April)  
Source: Community  
Place: Canada: Toronto  
N=: 2454  
Noise: Available (continuous)  
Report: Bremner, 1973  
Notes: Interviews were completed near the noise monitoring sites with both residents and some nearby workers who lived elsewhere.

CAN-120 1975 Western Ontario University Traffic Noise Survey

Date: 1975 (Summer and Fall), 1976 (May to September)  
Source: Road traffic  
Place: Canada: 47 sites in four cities (London, Toronto, Tillsonburg, Ingersoll)  
N=: 1216 interviews with 1150 respondents  
Noise: Available (continuous)  
Report: Bradley, 1976; Bradley, 1979; Bradley, 1980; Bradley and Jonah, 1977; Bradley and Jonah, 1979a; Bradley and Jonah, 1979b; Bradley and Jonah, 1979c; Fields and Hall, 1987; Jonah, Bradley and Dawson, 1981  
Notes: Sixty-six respondents were interviewed twice. The same interview form was used in two years in four locations to study five types of area characteristics.

CAN-121 1975-76 Southern Ontario Community Survey

Date: 1975 (May to July), 1976 (Summer)  
Source: Community (especially road traffic)  
Place: Canada: Hamilton, Burlington and Mississauga, Toronto area  
N=: 1786  
Noise: Available (continuous)

Report: Hall, 1979; Hall, Birnie and Taylor, 1978a; Hall, Birnie and Taylor, 1978b; Hall, Palmer, and Taylor, 1983; Hall and Taylor, 1976a; Hall and Taylor, 1976b; Hall and Taylor, 1977; Hall, Taylor and Birnie, 1977; Hall, et al., 1977; Taylor, Birnie and Hall, 1978; Taylor, Gertler and Hall, 1978; Taylor and Hall, 1977; Uptegrove, Hall, Taylor and Goulden, 1977

Notes: The questionnaire in the second year obtained more information about road traffic. Some sites had noise barriers. These data were included in a multisurvey, comparative analysis (Schultz, 1978).

CAN-126 Toronto Railway Noise Survey

Date: 1975 Publication (Survey date not reported)  
Source: Railway  
Place: Canada: Toronto  
N=: 170 (approximately)  
Noise: Available (continuous)  
Report: Hemingway, 1975; Hemingway, 1976  
Notes: Ambient noise levels did not affect ratings of railway noise.

CAN-136 1976 Canada Impulse Noise Survey

Date: 1976 (June to October)  
Source: Impulse noise from drop forging industrial plants  
Place: Canada: Welland, Port Colborne and Windsor  
N=: 607  
Noise: Available  
Report: Seshagiri, 1979; Seshagiri, 1981  
Notes: Residents rated industrial noise which could be heard from their homes. The annoyance with drop forge noise is greater than with road traffic noise of an equivalent noise level.

CAN-168 1978 Canadian Four-Airport Survey

Date: 1978 (Summer), 1979 (Summer) repeated interviews

CATALOG (Continued)

Source: Aircraft

Place: Canada: Four airports (Toronto, Buttonville, WaterlooWellington, Oshawa)

N=: 965 original interviews (212 repeated interviews in 1979)

Noise: Available (continuous)

Report: Birnie, Hall and Taylor, 1980a; Birnie, Hall and Taylor, 1980b; Hall, Birnie and Taylor, 1979; Hall, Dixit and Taylor, 1980; Hall, Palmer and Taylor, 1983; Hall and Taylor, 1982; Hall, Taylor and Birnie, 1980; Hall, Birnie, Taylor, and Palmer, 1981; Taylor, 1982; Taylor, 1984; Taylor, Hall and Birnie, 1979; Taylor, Hall and Birnie, 1980; Taylor, Hall and Birnie, 1981; Taylor, Hall and Birnie, 1987

Notes: In 1979, 212 respondents were reinterviewed in Toronto. Three of the airports were general aviation airports. Conclusions about the relative degree of annoyance at Toronto and a smaller airport differed for different noise impact indicators.

CAN-169 1978-79 Canadian Five Railway Yard Survey

Date: 1978-1979

Source: Railway

Place: Canada: Five railway yards in Ontario

N=: 544

Noise: Available (continuous)

Report: Dixit and Reburn, 1980; Hall, Dixit and Taylor, 1980

Notes: Annoyance with railway yard noise is greater than with road traffic or aircraft noise at the same noise levels.

CAN-174 1978 Canadian National Community Noise Survey (National Household Survey of Noise Exposure)

Date: 1978 (June to September)

Source: Community, Aircraft, Railway

Place: Canada: National sample as well as special samples near two airports

(St. Hubert in Quebec: Waterville in Nova Scotia) and four railway sites (Truro in Nova Scotia; Grand Falls, St. Leonard and Edmunston in New Brunswick)

N=: 8838

Noise: Some noise data available for 150 respondents

Report: Data Base..., 1979

Notes: These data have not been analyzed but are fully documented.

CAN-181 1979 Canadian Three-Airport General Aviation Study

Date: 1979 (July)

Source: Aircraft

Place: Canada: Three general aviation airports (Oshawa, Buttonville, Maple)

N=: 30

Noise: Available (continuous)

Report: Taylor, Birnie and Hall, 1980

Notes: Some residents had also been interviewed in 1978 (CAN-168). A major study objective is to contrast three study methods; in-depth interviews, diary, and field experiment.

CAN-236 1981 Southern Ontario Community Survey

Date: 1981 (Summer)

Source: Road traffic, Railway, Aircraft

Place: Canada: Southern Ontario

N=: 406 (57 study sites)

Noise: Available

Report: Hall, Taylor and Birnie, 1983; Hall, Taylor, and Birnie, 1985; Taylor, Hall and Birnie, 1984

Notes: The probability of annoyance is predicted as a function of activity interference reports in a logit analysis.

CAN-262 Canadian Party Wall Insulation Pilot Survey

Date: 1982 Publication (Survey date not reported)

Source: Interior noise

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- Place: Canada  
 N=: 98 (49 pairs of adjacent neighbors)  
 Noise: Available  
 Report: Bradley, 1982; Bradley, 1983a; Bradley, 1983b  
 Notes: Annoyance with neighbors' noise is less in residences with greater transmission loss for the party walls.
- CAN-279 1976 Toronto Freeway 401 Privacy Fence Survey  
 Date: 1976 (Spring and Autumn)  
 Source: Freeway traffic  
 Place: Canada: Four areas along the 401 freeway in Toronto  
 N=: 251  
 Noise: Not reported  
 Report: Andrew and Sharratt, 1976  
 Notes: Residents were interviewed about a privacy fence which had been erected in November 1974. No interviews were conducted before the installation of the fence. The survey was conducted at two times to contrast reactions to freeway conditions at two times of year.
- CAN-280 1978 Etobicoke and Ottawa Noise Barrier Study  
 Date: 1976, 1978 (Autumn in both years)  
 Source: Freeway traffic  
 Place: Canada: Etobicoke (2 areas on Route 401 near Toronto) and Ottawa (near Queensway)  
 N=: 1194  
 Noise: Available for some locations near barriers  
 Report: Schlievinsky and Adams, 1979  
 Notes: Interviews were conducted before and after a barrier installation in areas near the barrier and in nearby control areas. Some respondents were reinterviewed. Noise levels decreased by 6 decibels in some locations. Results are not analyzed by noise level.
- CHI-230 1975 Beijing Traffic Noise Survey  
 Date: 1975  
 Source: Road traffic  
 Place: China: 20 streets in Beijing  
 N=: Not known  
 Noise: Available (continuous)  
 Report: Chang, 1981  
 Notes: A self-administered questionnaire was sent to residents.
- CZE-109 Bratislava Traffic Noise Survey  
 Date: 1974 Publication (Survey date not reported)  
 Source: Road traffic  
 Place: Czechoslovakia: 12 streets in Bratislava  
 N=: The survey was carried out for 340 apartments  
 Noise: (Availability of noise data not reported)  
 Report: Radulov, 1974  
 Notes: Annoyance is affected by the height of the apartment.
- DEN-075 1972 Copenhagen Traffic Noise Survey  
 Date: 1972 (August, September)  
 Source: Road traffic  
 Place: Denmark: Copenhagen (27 study areas)  
 N=: 960  
 Noise: Available  
 Report: Kragh, 1977; Relster, 1975; Relster, 1981  
 Notes: The study was designed to test the effect of housing type (apartments compared to other types) on response to traffic noise. These data were included in a multisurvey, comparative analysis (Schultz, 1978).
- DEN-200 1979 Danish Railway Noise Survey  
 Date: 1979 (August, September)  
 Source: Railway  
 Place: Denmark  
 N=: 615  
 Noise: Available (continuous)  
 Report: Andersen, Kühl and Relster, 1980; Andersen, Kühl and Relster, 1983; Andersen, Kühl and Relster, 1988;

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- Kühl, 1980; Reaktionen på logstøj, 1982  
 Notes: More than half reported that goods trains are a special problem.
- FRA-016 1965 French Four-Airport Noise Study  
 Date: 1965 (November) to 1966 (April)  
 Source: Aircraft  
 Place: France: Four airports (Le Bourget (Paris), Orly (Paris), Marseilles, Lyon)  
 N=: Approximately 2000  
 Noise: Available (continuous)  
 Report: Alexandre, 1970; Association d'Anthropologie Applique's, 1967; Centre Scientifique..., 1968; Josse, 1969; Rylander, Sörensen, Alexandre and Gilbert, 1973  
 Notes: These data were included in a multisurvey, comparative analysis (Schultz, 1978).
- FRA-017 1965 French Regional Sonic Boom Survey  
 Date: 1965  
 Source: Sonic booms  
 Place: France: both Eastern and Southwestern regions of France  
 N=: 2296  
 Noise: Not available  
 Report: de Brisson, 1966  
 Notes: The study included a subsample of people who had complained about sonic booms.
- FRA-019 1965 Paris Expressway Noise Survey  
 Date: 1965  
 Source: Expressway traffic  
 Place: France: Paris area  
 N=: 420 (370 were used in the analysis)  
 Noise: Available (continuous)  
 Report: Lamure and Bacelon, 1967  
 Notes: These data were included in a multisurvey, comparative analysis (Schultz, 1978).
- FRA-041 1969 Paris Road Traffic Noise Study  
 Date: 1969  
 Source: Road traffic  
 Place: France: Paris area  
 N=: 700  
 Noise: Available for 500 interviews  
 Report: Aubree, Auzou and Rapin, 1971  
 Notes: Noise annoyance is related to other evaluations of neighborhoods.
- FRA-045 1970 French Sonic Boom Survey  
 Date: 1970 (November 11 to 16)  
 Source: Sonic booms  
 Place: France  
 N=: 2848 main study interviews, also 283 complainants  
 Noise: Not available, but frequency of booms is known  
 Report: Bremond, 1974; Centre d'Etudes..., 1971  
 Notes: The study includes a subsample of 283 complainants.
- FRA-056 1971 Orly Aircraft Noise Survey  
 Date: 1971 (April 18 to May 17 for main study)  
 Source: Aircraft  
 Place: France: Orly airport (Paris)  
 N=: 4998 in main study. In-depth interviews were conducted with 39 respondents  
 Noise: Available (5 dB steps)  
 Report: Francois, 1972; Francois, 1975c; Francois, 1979b; Francois and Roche, 1973  
 Notes: The in-depth interviews are described in one publication (Francois, 1972).
- FRA-063 1972 Paris Area Railway Noise Survey  
 Date: 1972 (April)  
 Source: Railway  
 Place: France: Paris area  
 N=: 350  
 Noise: Available (continuous)  
 Report: Aubree, 1973; Aubree, 1975; Gilbert, 1973

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Notes: These data were included in a multisurvey, comparative analysis (Schultz, 1978).

FRA-087 1973 St. Cyr L'Ecole General Aviation Noise Survey

Date: 1973 (October)  
Source: General aviation  
Place: France: Six areas around St. Cyr L'Ecole airport  
N=: 401  
Noise: Available (continuous)  
Report: Francois, 1975a  
Notes: The study was designed to be compared to the 1971 Orly Study (FRA-056).

FRA-092 1973 French Ten-City Traffic Noise Survey

Date: 1973 (September, October), 1974 (January), 1975 (September)  
Source: Road traffic  
Place: France: 10 cities  
N=: 1200  
Noise: Available (continuous)  
Report: Aspects de la Gêne..., 1976; Vallet, Maurin, Page, Favre and Pachiaudi, 1978  
Notes: After the first set of interviews (in 1973 for nine sites and January, 1974 for Lyon Villeurbanne) two of the sites (Nimes and Bourg) were revisited for 200 additional interviews (September 1975). Interviews were not necessarily conducted with the same respondents.

FRA-098 1974-75 Roissy Airport Before-After Opening Noise Survey

Date: 1974 (February 19 to 25), 1975 (March 17 to April 3)  
Source: Aircraft  
Place: France: Charles de Gaulle airport (Roissy area near Paris)  
N=: 1174 interviews from 690 respondents  
Noise: Available  
Report: Francois, 1975b; Francois, 1977c; Francois, 1979b

Notes: Interviews were conducted with the same residents just before and one year after opening Charles de Gaulle airport with 484 people. The airport opened on March 8, 1974. The study was especially designed for comparison to 1975 Orly (FRA-113) and 1974 French National Aircraft survey (FRA-099). Information is available on 80 people leaving the area in the first year of the airport's operation.

FRA-099 1974 French National Aircraft Noise Survey

Date: 1974 (December 9 to 20)  
Source: Aircraft  
Place: France: Probability sample of France  
N=: 1000  
Noise: Not available  
Report: Francois, 1975b; Francois, 1980  
Notes: This study was designed to be compared to the 1975 Orly (FRA-113) and 1974-75 Roissy studies (FRA-098)

FRA-113 1975 Orly Airport Noise Study

Date: 1975 (March 3 to 15)  
Source: Aircraft  
Place: France: Orly Airport (Paris)  
N=: 997  
Noise: Available  
Report: Francois, 1975b; Francois, 1977b; Francois, 1977c; Francois, 1979b; Francois, 1980  
Notes: The study was designed to be compared to the 1974 French National Aircraft Noise Survey (FRA-099) and the Roissy Airport Before-After Opening Noise Survey (FRA-098).

FRA-124 1975-76 l'Hay les Roses Barrier Survey

Date: 1975-76 (October)  
Source: Motorway traffic  
Place: France: l'Hay les Roses (South of Paris)

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- N=: 700  
Noise: Available (continuous)  
Report: Vallet, Abramowitch and Lambert, 1977; Vallet, Abramowitch and Lambert, 1979  
Notes: Residents were interviewed six months after the barrier was built about their evaluation of the noise before and after the barrier was built.
- FRA-131 1976 Orly Medical Effects Pilot Study  
Date: 1976 (June)  
Source: Aircraft  
Place: France: One high noise area around Orly and two comparative samples from low noise areas  
N=: 150  
Noise: Not available  
Report: Francois, 1977a  
Notes: The standard interview is supplemented by a self-administered questionnaire and by a medical examination. The study was designed to test the methodology for a medical effects survey. The study examined the possibility that some of the variation in attitudes could be related to physical characteristics of respondents.
- FRA-146 1977 French Light Aircraft Study  
Date: 1977 (May 25 to June 22)  
Source: Light aircraft  
Place: France: Four Paris-area airports (Chavenay, Guyancourt, St-Cyr-l'Ecole, Chelles-le-Pin)  
N=: 800  
Noise: Available  
Report: Bremond, 1979b; La Gêne Causée..., 1978  
Notes: Aircraft noise annoyance is greatest on weekends.
- FRA-150 1977 Roissy Airport Survey  
Date: 1977 (October 24 to November 21)  
Source: Aircraft  
Place: France: Roissy
- N=: 943  
Noise: Available (four-decibel width steps used in the analysis)  
Report: Francois, 1979a  
Notes: Of the 943 respondents, 218 had also been interviewed in 1974 and 1975. The study was designed to be compared to an earlier Roissy study (FRA-098).
- FRA-189 1971 French Concorde Sonic Boom Study  
Date: 1971 (May)  
Source: Sonic booms from Concorde  
Place: France: Three areas from previous sonic boom study (FRA-045)  
N=: 1202  
Noise: Numbers of sonic booms and the relationship to the Concorde flight path is known. Measurements for Concorde or regularly occurring booms are not reported.  
Report: Bremond, 1971  
Notes: Three booms occurred from Concorde in the week preceding the interview. Respondents regularly heard other sonic booms. Respondents compared reactions to booms in the previous week to booms normally heard.
- FRA-197 1979 French Behavioral Effects of Road Noise Study  
Date: 1979  
Source: Road traffic  
Place: France: 15 areas in Lyon and Marseille  
N=: 1486  
Noise: Available (continuous)  
Report: Lambert and Plouhinec, 1985; Lambert and Simonnet, 1980; Lambert, Simonnet and Vallet, 1983; Lambert, Simonnet and Vallet, 1984  
Notes: The study measured behavioral reactions (eg. closing windows, location of activities in the home and use of out-of-doors space) at different noise levels. In-depth interviews and observations were

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completed with 40 people in five of the sites after the main survey.

FRA-218 1975 Strasbourg Airport Noise Survey

Date: 1975  
Source: Aircraft  
Place: France: Strasbourg airport  
N=: 405 interviews (9 other in-depth interviews)  
Noise: Available (continuous)  
Report: Francois, 1974; Francois, 1975d  
Notes: The study was designed to be compared to an earlier study at Orly (FRA-056). Detailed information is available about nine in-depth exploratory interviews conducted in December 1974.

FRA-239 1984-1986 French Combined Aircraft/Road Traffic Survey

Date: 1984 (September) to 1986 (May)  
Source: Aircraft, road traffic  
Place: France: around Orly, Roissy, Nice and Antibes  
N=: 1032 (570, Orly; 281, Roissy; 101, Nice; 80 Antibes)  
Noise: Available  
Report: Diamond and Walker, 1986a; Diamond and Walker, 1986b; Vallet, et al., 1986; Vallet, et al., 1988  
Notes: This survey was jointly designed under Commission of European Communities auspices to be compared to a Glasgow Survey (UKD-238) and a Schiphol Survey (NET-240).

FRA-252 1982-83 CEC Impulse Noise Field Study (French Survey)

Date: 1982-1983 (Sometime between Sept 1982 and April 1983)  
Source: Impulse noise (Shooting range, Shunting Yard, Building Site)  
Place: France: Athis-Mons, Antibes, Saint-Denis  
N=: 451  
Noise: Available  
Report: de Jong and Commins, 1983; Groeneveld, 1986; Groeneveld and

de Jong, 1984; Groeneveld and de Jong, 1985a; Groeneveld and de Jong, 1985b; Miedema, 1987; Rabrait, 1984

Notes: This is part of a coordinated Commission of European Communities joint study in Germany (GER-253), Ireland (IRE-254) and the Netherlands (NET-355). The results support at least a 15 decibel penalty for impulse noise.

FRA-289 1986-87 French National Transportation Noise Survey

Date: 1986, 1987  
Source: Community, Road Traffic  
Place: France: Probability sample of the French population  
N=: 2010  
Noise: Available (continuous) for 375 respondents  
Report: Lambert, Maurin, Boscher and Lebart, 1988; Maurin, Lambert and Alauzet, 1988; Maurin, Lambert, Alauzet and Chapuy, 1988  
Notes: Noise is the nuisance which is most often mentioned by the French population.

GER-034 1969 Munich Airport Noise (DFG Aircraft Noise Study)

Date: 1969 (February to June)  
Source: Aircraft  
Place: Germany: Munich Airport  
N=: 660 main social survey interviews (also 115 repeated interviews, 152 migrant interviews)  
Noise: Available (continuous)  
Report: Deutsche Forschungsgemeinschaft, 1974; Finke and Martin, 1974; Finke, et al., 1975; Martin, Rohrman, Finke, 1973; Rohrman, Schümer, Schümer-Kohrs, Guski, Finke 1973  
Notes: This survey was one part of a multi-disciplinary study. In addition to 660 main interviews, 152 migrants were interviewed, 115 retests were performed, 375

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people had special psychological and physiological tests, and 392 had medical tests. These data were included in a multisurvey, comparative analysis (Schultz, 1978).

GER-037 1969 Meppen Sonic Boom Field Experiment

Date: 1969 (September)  
 Source: Sonic booms  
 Place: Germany: Meppen  
 N=: 39  
 Noise: Available (continuous)  
 Report: May, 1971a; May, 1971b; May, 1972  
 Notes: People rated every sonic boom which they heard as they went about their normal activities.

GER-114 1975 German General Aviation Survey

Date: 1975 (April)  
 Source: Aircraft  
 Place: Germany: Four airports (Egelsbach, Bonn-Handlar, Karlsruhe-Forchheim, Braunschweig)  
 N=: 398  
 Noise: Not available  
 Report: Rohrmann, 1975; Rohrmann, 1976  
 Notes: It is concluded that disturbance is greater (for the same noise level) at small airports than at large airports.

GER-134 1976 Hamburg Urban Noise Survey

Date: 1976 (August, September)  
 Source: Road, Railway, Industrial, Aircraft, Construction  
 Place: Germany: Hamburg  
 N=: 643  
 Noise: Available (continuous)  
 Report: Finke, Guski and Rohrmann, 1980; Guski, 1985; Guski, Wichmann, Rohrmann and Finke, 1978; Rohrmann, 1978; Rohrmann, Finke and Guski, 1980; Rohrmann and Scharnberg, 1981

Notes: This is part of an interdisciplinary study which included several other data collection techniques.

GER-135 1976 Stuttgart Railway and Road Noise Survey

Date: 1976 (Summer)  
 Source: Railways, Road traffic  
 Place: Germany: Stuttgart  
 N=: 1125  
 Noise: Available (continuous)  
 Report: Heimerl and Holzmann, 1978  
 Notes: Railway noise is less annoying than road traffic noise at the same noise level.

GER-164 Düsseldorf Traffic Noise Survey

Date: 1973  
 Source: Road traffic  
 Place: Germany: Düsseldorf (8 streets)  
 N=: 274  
 Noise: Available (continuous)  
 Report: Buchta and Kastka, 1977a; Buchta and Kastka, 1977b; Kastka and Buchta, 1977; Kastka, Buchta, Paulsen and Ritterstaedt, 1984  
 Notes: The study examined the different sources of annoyance.

GER-192 1977-1983 German Road/Railway Noise Comparison Study

Date: 1977-1978 1983 (Winter, 1977 or Summer' 1978 for most sites) Some sites added in 1983.)  
 Source: Road traffic, Railway  
 Place: Germany: 26 areas  
 N=: 1651  
 Noise: Available (continuous)  
 Report: Interdisziplinäre..., 1983; Knall and Schümer, 1983; Möhler, 1988; Möhler and Knall, 1983; Möhler, Schümer, Knall and Schümer-Kohrs, 1986; Schümer, Kasubek, Knall and Schümer-Kohrs, 1981; Schümer and Schümer-Kohrs, 1983; Schümer, Zeichart and Schümer-Kohrs, 1988; Schümer and Zeichart, 1989a; Schümer and Zeichart, 1989b

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Notes: Road traffic is generally more annoying than railway noise at the same noise level. Since the initial 1977-78 survey at 14 sites, additional sites have been added.

GER-231 Blast Furnace and Road Noise Study

Date: 1981  
Source: Road traffic  
Place: Germany: 2 areas  
N=: Approximately 35  
Noise: Available (continuous)  
Report: Ritterstaedt and Kastka, 1981  
Notes: The study compared reactions to road traffic noise and to less variable noise from a blast furnace.

GER-246 German Six-City Traffic Change Panel Study

Date: 1977-1978 (Autumn both years)  
Source: Road traffic  
Place: Germany: residential areas in 6 cities  
N=: 3405 interviews (1709 before and 1696 after a change.)  
Noise: Available  
Report: Kastka, 1980; Kastka, 1981  
Notes: Residents were surveyed both before and after changes had been made in traffic patterns for safety reasons. The mean change in noise level between the two phases was about one decibel (with accompanying changes in numbers and speed of vehicles) but there was a disproportionately large change in annoyance.

GER-253 1982-83 CEC Impulse Noise Field Study (German Survey)

Date: 1982-1983 (Sometime between Sept 1982 and April 1983)  
Source: Impulse noise (Drop forges, Shooting ranges, Scrapyard)  
Place: Germany: 6 towns (including Resse, Haan, Solingen, Plettenberg) which contained 24 noise zones

N=: 514 (321 in Groeneveld and de Jong, 1985)

Noise: Available

Report: de Jong and Commins, 1983; Groeneveld, 1986; Groeneveld and de Jong, 1984; Groeneveld and de Jong, 1985a; Groeneveld and de Jong, 1985b; Kastka and Langdon, 1985; Kastka and Ritterstaedt, 1984; Miedema, 1987; Ritterstaedt and Kastka, 1985

Notes: This is part of a Commission of European Communities coordinated joint study in France (FRA-252), Germany (GER-253), Ireland (IRE-254) and the Netherlands (NET-355). The results support at least a 10-decibel penalty for impulse noise.

GER-256 Berlin Nighttime Noise Survey

Date: 1985 Publication (Survey date not reported)  
Source: Road traffic  
Place: Germany: 222 residential areas in West Berlin  
N=: 683  
Noise: Available (continuous)  
Report: Guski, 1985; Scharnberg, 1985; Scharnberg and Wühler, 1982; Scharnberg, Wühler, Finke and Guski, 1982  
Notes: Daytime disturbance levels are related to annoyance. The placement of sleeping rooms and window closing seems to explain the low relation between noise level and sleep response.

GER-275 1986-87 Darmstadt Movers Survey

Date: August 1986 to November 1987 (approximate)  
Source: Community  
Place: Germany: Urban and suburban areas in Darmstadt  
N=: 163 respondents providing approximately 400 responses  
Noise: Not known  
Report: Paechter, Rohrmann, Wertenbroch and Wetzel, 1988

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- Notes: The sample consisted of 92 movers who were looking for new homes and a control group of 71 people who were not looking. Both groups received an initial personal interview and a final telephone interview. Movers evaluated the noise at their new residence less favorably four months after moving in than they did before moving in.
- GER-278** 1980 German Shooting Range Survey  
 Date: 1980-1981  
 Source: Shooting, Road traffic  
 Place: Germany: Five shooting-ranges  
 N=: 400  
 Noise: Available (continuous)  
 Report: Buchta, 1984; Buchta, 1988; Buchta, Buchta, Koslowsky and Rohland, 1982  
 Notes: Results from this field survey indicate that shooting range noise is the equivalent of about 15 dB more annoying than road traffic noise. These findings are compared to a laboratory study which found a difference in reactions equivalent to approximately 6 dB.
- GER-281** 1976-1977 German Highway Noise Study  
 Date: 1976-1977  
 Source: Expressway traffic  
 Place: Germany: 5 sites in four towns with 2 to 4 study zones at each site  
 N=: 359  
 Noise: Measured (continuous)  
 Report: Kastka, Buchta, Paulsen and Ritterstaedt, 1984; Kastka, Hall and Noack, 1983  
 Notes: Distance from the highway has only a small effect on noise annoyance after controlling for noise level. Some of these sites were resurveyed in a later survey (GER-282).
- GER-282** 1979 Wuppertal and Düsseldorf Traffic Noise Barriers Study  
 Date: 1979  
 Source: Road traffic  
 Place: Germany: Wuppertal and Düsseldorf  
 N=: 138  
 Noise: Available (continuous)  
 Report: Kastka, Buchta, Paulsen and Ritterstaedt, 1984; Kastka and Paulsen, 1979; Langdon and Griffiths, 1982  
 Notes: The interviews were conducted after barriers had been erected in some areas where interviews had previously been conducted in 1976 or 1977 (GER-281).
- GER-290** 1981 German Military Training Area Survey  
 Date: 1981  
 Source: Cannon fire, Aircraft, Rifle fire  
 Place: Germany: 21 communities near five military training areas (Munster, Senne, Grafenwöhr, Bergen, Hohenfels)  
 N=: 427  
 Noise: Available (continuous)  
 Report: Buchta, 1988; Buchta, Buchta and Loosen, 1986  
 Notes: C-weighting correlated only slightly better with the annoyance scores than A-weighting. This study was designed for comparison to a road traffic and impulse noise study (GER-278).
- GER-291** 1984 German Part of Visual Context of Noise Survey  
 Date: 1984  
 Source: Traffic Noise  
 Place: Germany: Ratingen  
 N=: 240 (approximately) surveyed but fewer are used for many analyses  
 Noise: Available (continuous)  
 Report: Kastka and Noack, 1987; Kastka, et al., 1986  
 Notes: This is the German part of a German/Swiss survey (SWI-312) Both mail and personal

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questionnaires were used in Germany. The streets of the Swiss town were judged to be more attractive. At the same noise level, there was less annoyance for residents in the Swiss than the German town.

HKG-125 1975 Hong Kong Fireman Environmental Noise Survey  
 Date: 1975 (April to October)  
 Source: Aircraft, Road traffic  
 Place: Hong Kong: 12 fire stations (10 are near Kai Tak airport)  
 N=: 522  
 Noise: Available (continuous) inside fire stations  
 Report: Ko, Kwan and Chan, 1976; Ko, Chan and Kwan, 1977  
 Notes: Firemen completed a self-administered questionnaire. Reactions to both home and fire station environments were obtained but noise measures are only available at the fire station. Firemen live at the station on alternate days.

HKG-187 Hong Kong Socio-Economic Area Road Traffic Survey  
 Date: 1980 Publication (Survey date not reported)  
 Source: Road traffic  
 Place: Hong Kong: Two neighborhoods  
 N=: 180  
 Noise: Available (continuous)  
 Report: Ko and Wong, 1980  
 Notes: Residents in the higher socio-economic neighborhood are more annoyed by noise at the same noise level.

HKG-208 Preliminary Hong Kong Fireman Noise Survey  
 Date: 1975 Publication (Survey date not reported)  
 Source: Road traffic, Aircraft  
 Place: Hong Kong: Two fire stations  
 N=: 68  
 Noise: Available (continuous)

Report: Ko, 1975  
 Notes: The interviewer translated the questions from English into Chinese during the interview. A comparison of these responses with some European data suggested greater annoyance for these firemen. The firemen live at the station on alternate days. This study preceded a larger scale study (HKG-125).

IRE-254 1982-83 CEC Impulse Noise Field Study (Irish Survey)  
 Date: 1982-1983 (Sometime between September 1982 and April 1983)  
 Source: Impulse noise (Shooting range, Shipyard, Scrapyard, Dairy)  
 Place: Ireland: Kileek, Rushbroke, Ringsend, Blackpool, Churchtown  
 N=: 454  
 Noise: Available  
 Report: de Jong and Commins, 1983; Groeneveld, 1986; Groeneveld and de Jong, 1984; Groeneveld and de Jong, 1985a; Groeneveld and de Jong, 1985b; Hayden, Whelan and Dillon, 1984; Miedema, 1987  
 Notes: This is part of a Commission of European Communities coordinated joint study in France (FRA-252), Germany (GER-253), and the Netherlands (NET-355). The results support at least a 10-decibel noise penalty for impulse noise.

IRQ-229 1980 Baghdad Street Noise Survey  
 Date: 1980 (Summer)  
 Source: Road traffic  
 Place: Iraq: Baghdad  
 N=: 329 residents and shopkeepers and 360 pedestrians were interviewed  
 Noise: Available (continuous)  
 Report: Al-Samarrai and Al-Jawadi, 1981  
 Notes: One type of interview was administered to pedestrians on the streets. Another type was used for residents and shopkeepers.

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- ITL-318** 1967 Ferrara Comparative Traffic Noise Study  
 Date: 1967  
 Source: Road traffic  
 Place: Italy: Ferrara  
 N=: 166  
 Noise: Available (continuous)  
 Report: Jonsson, Kajland, Paccagnella and Sörensen, 1969  
 Notes: This study was designed for comparison to the 1967 Stockholm Comparative Traffic Noise Study (SWE-025). In spite of a higher traffic noise level (measured indoors) in the Ferrara sample, those in the Stockholm sample were more annoyed. Residents living one story above street level were interviewed.
- JPN-005** 1953 Osaka and Amagasaki Industrial Noise Survey  
 Date: 1953  
 Source: Industrial noise when at home  
 Place: Japan: Osaka and Amagasaki  
 N=: 136  
 Noise: Available  
 Report: Osada, 1971; Shoji, et al., 1953; Yamamoto, Takagi, Hashimoto and Yoneda, 1970  
 Notes: Housewives were interviewed.
- JPN-018** 1965 Osaka Aircraft Noise Survey  
 Date: 1965  
 Source: Aircraft  
 Place: Japan: 27 sites near Osaka airport  
 N=: 2700  
 Noise: Available (continuous)  
 Report: Kansai Toshi..., 1965; Osada, 1971  
 Notes: Most respondents were housewives.
- JPN-046** 1970 Yokota Air Base Study  
 Date: 1970 (July)  
 Source: Aircraft  
 Place: Japan: Yokota air base  
 N=: 991 interviews (from 1000 households)  
 Noise: Available (5 NNI steps)
- Report:** Kodama, 1971; Osada 1971; Tokyo Kogai Kenkyujo, 1971; Tokyo Kogai Kenkyujo, 1972  
**Notes:** Housewives were interviewed.
- JPN-062** 1972 Akishima City Aircraft Noise Survey  
 Date: 1972 (September)  
 Source: Aircraft  
 Place: Japan: Ten areas in Akishima City near Yokota air base  
 N=: Approximately 1000  
 Noise: Available (continuous)  
 Report: Hayashi, Hayashi, Kodama, and Kondo, 1973; Hayashi, Kondo, and Kodama, 1974; Hayashi, Kondo, and Kodama, 1978; Kondo, Hayashi, and Kodama, 1975; Kondo, Hayashi, and Kodama, 1978  
 Notes: A Psychological Assessment of Aircraft Noise Index (PANNI) is described.
- JPN-064** 1972 Environmental Agency of Japan Shinkansen Noise Survey  
 Date: 1972 (November)  
 Source: High speed Railway  
 Place: Japan: The New Tokaido Shinkansen line  
 N=: 968  
 Noise: Available  
 Report: An Investigation..., 1973; Kumagai, Kono, Sone and Nimura, 1975; Nimura, Sone and Kono, 1981  
 Notes: Residents are the equivalent of 5-decibels more annoyed near the high-speed Shinkansen lines than near four regular railway lines (JPN-101).
- JPN-065** 1972 New Tokaido and New Sanyo Shinkansen Railway Noise  
 Date: 1972 (July)  
 Source: High speed railway  
 Place: Japan: The New Tokaido and New Sanyo Shinkansen routes  
 N=: 424  
 Noise: Available (continuous)  
 Report: Nimura, Sone, Ebata and Matsumoto, 1975; Nimura, Sone and

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Kono, 1973; Nimura, Sone and Kono, 1981; Sone, Kono, Nimura, Kameyama and Kumagai, 1973

Notes: The study compares reactions to a newly opened route (four months old) and a more established route (eight years old).

JPN-094 1973-1974 Sendai Road Traffic Noise Survey

Date: 1973 (December), 1974 (January)  
Source: Road traffic  
Place: Japan: Sendai City (20 areas)  
N=: 939

Noise: Available  
Report: Shibuya, Tanno, Sone, and Nimura, 1975

Notes: Demographic and neighborhood characteristics which affect road traffic noise annoyance are studied.

JPN-101 1974 Sendai City Regular Railway Noise Survey

Date: 1974  
Source: Railway  
Place: Japan: Sendai City  
N=: 717  
Noise: Available (5 dB steps)  
Report: Kumagai, Kono, Sone, and Nimura, 1975; Nimura, Sone and Kono, 1981

Notes: Residents are the equivalent of five-decibels less annoyed near four regular railways than at similar noise levels in a high-speed Shinkansen noise study (JPN-064).

JPN-123 1975 Yokohama Road and Railway Noise Survey

Date: 1975 (October to December)  
Source: Railway, Road traffic  
Place: Japan: Yokohama  
N=: 356 (1975)  
Noise: Available (5 dB steps)  
Report: Tamura, 1978; Tamura and Gotoh, 1977

Notes: Another survey was carried out in this area in 1976.

JPN-138 1976 Kanagawa Ward Community Noise Survey

Date: 1976 (October, November)  
Source: Community  
Place: Japan: Kanagawa Ward in Yokohama  
N=: 427  
Noise: Not available in English publication  
Report: Tamura and Gotoh, 1980  
Notes: NONE

JPN-139 1976 Japanese Road and Railway Noise Study

Date: 1976 (December)  
Source: Road traffic, Railway  
Place: Japan  
N=: 372  
Noise: Not available in English publication  
Report: Tamura and Gotoh, 1980  
Notes: NONE

JPN-140 1977 Camp Fuji Noise Survey

Date: 1977 (October, November)  
Source: Road traffic, Community, Artillery  
Place: Japan: Area around Camp Fuji  
N=: 342  
Noise: Not available in English publication  
Report: Tamura and Gotoh, 1980  
Notes: NONE

JPN-152 1977 Atugi Military Aircraft Noise Study

Date: 1977 (November, December)  
Source: Aircraft  
Place: Japan: Residential areas surrounding Atugi Base  
N=: 345  
Noise: Not available in English publication  
Report: Tamura and Gotoh, 1980  
Notes: NONE

JPN-163 1972 Itami City Osaka Airport Noise Study

Date: 1972 (November) to 1973 (January)  
Source: Aircraft  
Place: Japan: Osaka Airport

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- N=: 1209  
 Noise: Available (5 dB steps)  
 Report: Report on Investigation..., 1973;  
 Report on the Effects..., 1973  
 Notes: NONE
- JPN-177 1978 Kanagawa Ward Community Noise Survey  
 Date: 1978 (October, November)  
 Source: Community  
 Place: Japan: Kanagawa Ward in Yokohama  
 N=: 387  
 Noise: Not available in English publication  
 Report: Tamura and Gotoh, 1980  
 Notes: NONE
- JPN-190 1956 Kyoto Traffic Noise Survey  
 Date: 1956  
 Source: Road traffic  
 Place: Japan: Kyoto  
 N=: 956  
 Noise: Available  
 Report: Aoki, 1959; Osada, 1971  
 Notes: Questionnaires were left at households and later collected.
- JPN-201 1975 Shinkansen Railway Survey  
 Date: 1975 (March)  
 Source: Railway  
 Place: Japan: Shinkansen line in Nagoya City  
 N=: 1187  
 Noise: Available (5 dB steps)  
 Report: Yamanaka, et al., 1982  
 Notes: Self-completion questionnaires were used. Questions concerned only health. Community noise was not explicitly rated. Some of the 190 indicators of poor health were related to noise and vibration levels.
- JPN-271 Japan Three-Site Construction Noise Survey  
 Date: 1984 Publication (Survey date not reported)  
 Source: Construction  
 Place: Japan: Abiko City, Tuchiura City, Misato City  
 N=: 689
- Noise: Available (continuous)  
 Report: Sakai, 1984  
 Notes: Construction noise annoyance was less in the area with a higher ambient noise level.
- JPN-292 Sapporo City Traffic Noise and Vibration Survey  
 Date: 1984 (September, October)  
 Source: Road traffic  
 Place: Japan: Sapporo City (8 high vibration areas, 5 low vibration areas)  
 N=: 219  
 Noise: Available (continuous) (Vibration levels were also measured)  
 Report: Sato, 1988  
 Notes: People are more annoyed by the same level of traffic noise in areas where there is greater vibration. The measured vibration levels are related to vibration annoyance.
- JPN-293 Osaka Aircraft and Environmental Noise Survey  
 Date: 1987 Publication (Survey date not reported)  
 Source: Aircraft, Community  
 Place: Japan: Areas near Osaka International Airport including Northern Osaka, Sennan, Wakayama and Awaji  
 N=: 6,080 from 58 areas  
 Noise: Available (continuous)  
 Report: Hiramatsu, Takagi, Yamamoto and Yano, 1987  
 Notes: WECPNL values are estimated using government procedures. Environmental noise is averaged over five sites within each of the 500 meter square areas.
- JPN-294 Nagoya City 1980's Cumulative Noise Survey  
 Date: 1982, 1983, 1984, 1985, 1987, 1988  
 Source: Community, Road Traffic  
 Place: Japan: Nagoya City  
 N=: 336 (as of 1988 publication)  
 Noise: Available (continuous)

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Report: Hayashi, et al. 1987; Hayashi, Kuno, Oishi, Mishina and Ikegaya, 1987; Hayashi, Kuno, Oishi, Mishina and Ikegaya, 1988; Izumi, 1988; Kuno, Zheng, Takeda, Ikegaya and Mishina, 1984; Kuno, et al., 1987; Kuno, Ohara, Takeda and Mishina, 1986

Notes: Additional noise measurement locations and interviews were added at several times since the first survey in 1982. Residents in residential areas are slightly more annoyed by the same noise level than are residents in predominant industrial or commercial areas.

KOR-295 1987 Seoul Traffic Noise Survey

Date: 1987 (February)

Source: Road traffic

Place: Korea: Seoul

N=: 351 (144 industrial area, 207 residential area)

Noise: Available (continuous)

Report: Yu, 1987; Yu, 1988

Notes: Interviews were conducted with residents in both a residential and an industrial area.

NET-002 1950 Netherlands Sound Insulation Effects Study

Date: 1950 (April to July)

Source: Neighbors in apartment buildings

Place: Netherlands: Rotterdam, The Hague

N=: Approximately 1215

Noise: Sound insulation of dwellings is available

Report: Bitter and Horch, 1958; Bitter and van Weeren, 1955; van den Eijk, Kasteleijn, and Kosten, 1956

Notes: NONE

NET-013 1963 Schiphol Airport Survey

Date: 1963 (August, September)

Source: Aircraft

Place: Netherlands: Eight areas around Schiphol airport

N=: 1000

Noise: Available (continuous)

Report: Bitter, 1970; Bitter, 1972; Bitter and Schwager, 1964; de Jong, 1981b; de Jong, 1981c; de Jong, 1983b; Kosten, et al., 1967

Notes: This survey supported early Dutch aircraft noise regulations.

NET-106 1974 Dordrecht Home Sound Insulation Study

Date: 1974 (April), and 1976 (April)

Source: Highway Traffic

Place: Netherlands: Dordrecht, alongside Highway 16

N=: 383 (before insulation), and 376 (after insulation)

Noise: Available

Report: Bitter, 1979a; Bitter, 1979b; Bitter, Kaper and Pinkse, 1978; de Jong, 1983a; van Dongen, 1981a; van Dongen, 1982

Notes: The study compares two sound insulation situations: one before noise abatement; the second, two years after noise insulation measures were installed in the homes as a result of residents' strong opposition to changes in nearby road traffic. The study was designed to be compared to a similar later study (NET-238).

NET-115 1975 Schiphol and Marssum Aircraft Noise Insulation Survey

Date: 1975 (September)

Source: Aircraft

Place: Netherlands: Five areas around Schiphol and one (Marssum) near Leeuwarden Military Airfield

N=: 434 (376, Schiphol) (58, Marssum)

Noise: Available (5 dB steps)

Report: Bitter, 1980; Bitter and Willigers, 1979; de Jong, 1981b; de Jong, 1981c; de Jong, 1983b; Lingen and Voorn, 1979; Willigers, 1979

Notes: The noise annoyance relationship had not changed since the 1963 Schiphol survey (NET-013). The survey preceded sound insulation installation and can be compared with a post-insulation survey

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(NET-149). The survey occurred during an unusually warm summer.

NET-149 1977 Schiphol and Marssum Sound Insulation Survey

Date: 1977 (September)  
Source: Aircraft  
Place: Netherlands: Five areas around Schiphol and one (Marssum) around Leeuwarden Military Airfield  
N=: 353 (304, Schiphol) (49, Marssum)  
Noise: Available  
Report: Bitter, 1980; Bitter and Willigers, 1979; de Jong, 1981b; de Jong, 1981c; Lingen and Voorn, 1979; Willigers, 1979  
Place: Interviews followed the installation of sound insulation in the same areas as a 1975 study (NET-115).

NET-153 1977 Netherlands Railway Noise Survey

Date: 1977 (October)  
Source: Railway  
Place: Netherlands: Twelve locations  
N=: 671  
Noise: Available (continuous)  
Report: de Jong, 1979a; de Jong, 1983a; de Jong and Peeters, 1983; de Jong and Tukker, 1983; Peeters, 1981; Peeters, de Jong, Kaper, and Tukker, 1984  
Notes: Inside noise measurements were made as well as outside measurements but did not correlate more highly with annoyance.

NET-193 1976 Netherlands Military Airfields Noise Study

Date: 1976 (August, September)  
Source: Aircraft  
Place: Netherlands: Areas near three military airfields (Soesterberg, Twente, Volkel)  
N=: 867  
Noise: Available (continuous)  
Report: de Jong, 1980b; de Jong, 1981b; de Jong, 1981c; de Jong, 1983b; de

Jong and Beers, 1980; de Jong and Groeneveld, 1983

Notes: This study is designed for comparison to three other studies, Schiphol, 1963, (NET-013); Schiphol/Marssum, 1975 (NET-115); and Schiphol/Marssum 1977, (NET-149).

NET-194 1976 Netherlands Railway Noise Survey

Date: 1976 (October)  
Source: Railway  
Place: Netherlands: 9 locations (5 near railways, 2 near tramways, and 2 near metro-tramways)  
N=: 65 (45 near railways, 10 near tramways, 10 near metro-tramways)  
Noise: Continuous  
Report: de Jong, 1977a; de Jong, 1977b  
Notes: Open, unstructured interviews were conducted as part of the planning for a larger railway survey (NET-153).

NET-195 1977-78 Netherlands New Railway Line Survey

Date: 1977 (March, September), 1978 (September)  
Source: Railway  
Place: Netherlands: Zoetermeer  
N=: 960: 425 (before railway opened), 299 (4 months after opened), 221 (16 months after opened), 15 (new residents moving in between 4 and 16 months after opening)  
Noise: Available (5 dB steps)  
Report: de Jong, 1983a; van Dongen and van den Berg, 1980  
Notes: Respondents were interviewed several times.

NET-196 1978 Dutch Homes for the Aged Environmental Noise Study

Date: 1978 (September)  
Source: Road traffic, Airports, Railways, Industry

CATALOG (Continued)

- Place: Netherlands: 57 locations (37 near roads and 20 near airports, industries or railway tracks)  
 N=: 345 (228 road traffic, 117 other sources)  
 Noise: Available (5 dB steps)  
 Report: van Dongen, 1980a; van Dongen, 1980b; van Dongen, 1981b  
 Notes: People living in homes for the aged were interviewed.
- NET-232 1980 Netherlands Industrial Noise Survey  
 Date: 1980 (January)  
 Source: Industry including railway shunting yards  
 Place: Netherlands: 20 industrial and 6 railway shunting yard areas  
 N=: 695  
 Noise: Available for 597 respondents in 23 locations  
 Report: Groeneveld, 1981; Groeneveld and Gerretsen, 1984; Groeneveld and Verboom, 1981; Vos, 1985  
 Notes: NONE
- NET-240 1984 Schiphol Combined Aircraft/Road Traffic Survey  
 Date: 1984 (Autumn)  
 Source: Aircraft, Road traffic  
 Place: Netherlands: Schiphol airport  
 N=: 581  
 Noise: Available  
 Report: Diamond and Walker, 1986a; Diamond and Walker, 1986b; Miedema, 1987  
 Notes: This survey was jointly designed under Commission of European Communities auspices to be compared to an Orly Survey (FRA-239) and Glasgow Survey (UKD-238).
- NET-255 1982-83 CEC Impulse Noise Field Study (Netherlands Survey)  
 Date: 1982 (September, October)  
 Source: Impulse noise (Shooting range, Shipyard, Scrapyard, Metal Working)
- Place: Netherlands: (Bussum, Driebergen, Vught, Bolnes/Ridderkerk, H.I.Ambacht/Zwijndrecht, Sittard, Lekkerkerk, Raamsdonksveer)  
 N=: 389  
 Noise: Available  
 Report: de Jong and Commins, 1983; Groeneveld, 1984; Groeneveld and de Jong, 1984; Groeneveld and de Jong, 1985a; Groeneveld and de Jong, 1985b; Groeneveld, 1986; Groeneveld, van den Berg and de Jong, 1985; Miedema, 1987  
 Notes: This is part of a Commission of European Communities coordinated joint study in France (FRA-252), Germany (GER-253), and Ireland (IRE-254). The results support at least a 10 dB impulse noise penalty.
- NET-257 1979 Netherlands Industrial Noise Pilot Survey  
 Date: 1979 (Summer)  
 Source: Industrial (including railway shunting yards)  
 Place: Netherlands: 50 locations  
 N=: 308  
 Noise: Not available  
 Report: Groeneveld, 1980  
 Notes: Interviews were conducted by telephone. This study was used as a pilot survey and as a basis for sample selection for the 1980 Netherlands Industrial Noise Survey (NET-232).
- NET-258 1975 Amsterdam Home Sound Insulation Study  
 Date: 1975 (March), 1978 (November)  
 Source: Expressway traffic  
 Place: Netherlands: the Einsteinweg area (along National Road 10) in Amsterdam  
 N=: 622 (before insulation installed)  
 347 (after installed)  
 Noise: Available  
 Report: Bitter, Holst, Kandelaar, et al., 1982; de Jong, 1981c; de Jong,

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- 1981e; van Dongen, 1981a; van Dongen, 1982  
 Notes: This study was planned to be compared to a similar earlier study (NET-106).
- NET-259** 1977 Netherlands Industrial Noise Pilot Survey  
 Date: 1977 (October, November)  
 Source: Industrial  
 Place: Netherlands: Eerbeek, Geleen/Stein, Hoogvliet, Wormerveer  
 N=: 40  
 Noise: Available  
 Report: Hentenaar, 1978  
 Notes: A variable format, unstructured interview was administered. This is a qualitative pilot study for the 1980 Netherlands Industrial Noise Survey (NET-232).
- NET-260** 1980-1981 Netherlands Pile Driver Impulse Noise Survey  
 Date: 1980-1981  
 Source: Industrial (Impulse noise from a pile driver)  
 Place: Netherlands: The Hague Wormerveer  
 N=: 56  
 Noise: Available  
 Report: de Jong, van den Berg and Stolk, 1981  
 Notes: This is a pilot study initiated by the European Economic Community.
- NET-261** 1977 Netherlands National Noise Survey  
 Date: 1977 (August 14 to September 14)  
 Source: Community  
 Place: Netherlands: Representative national sample  
 N=: 3974  
 Noise: Not available  
 Report: de Jong, 1980a; de Jong, 1981a; de Jong, 1981d  
 Notes: The study measures the extent of noise annoyance from a national probability sample of the population aged 16 and over.
- NET-263** 1982-1983 Netherlands New Dwelling Survey  
 Date: 1982-1983  
 Source: Equipment in homes  
 Place: Netherlands  
 N=: 193 (dwellings)  
 Noise: Available for some dwellings  
 Report: van Dongen, 1984; van Dongen, 1985  
 Notes: NONE
- NET-269** 1986 Netherlands Low-Level Military Aircraft Study  
 Date: 1986 (June)  
 Source: Military aircraft  
 Place: Netherlands: Overijssel Province  
 N=: 625  
 Noise: Available for some dwellings  
 Report: de Jong, 1986a; de Jong, 1986b; de Jong and Kok, 1987  
 Notes: Respondents were interviewed via telephone. The study compares the reactions of those living under low-level military flying routes with those at various distances from the routes and those living near a military airfield. Some 43% living under the routes are "very" annoyed. This is unsatisfactory according to Netherlands noise criteria.
- NET-276** Netherlands Tram and Road Traffic Noise Survey  
 Date: 1983 (Summer)  
 Source: Trams, Road traffic  
 Place: Netherlands: Rotterdam, The Hague, Amsterdam  
 N=: 798  
 Noise: Available (continuous)  
 Report: Miedema, 1987; Miedema and van den Berg, 1985; Miedema and van den Berg, 1988  
 Notes: Noise annoyance is lower near straight track than near curves or junctions at the same noise level.
- NOR-311** 1989 Oslo Airport Survey  
 Date: 1989 (April, September)

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Source: Aircraft  
 Place: Norway: Oslo (15 areas)  
 N=: 3337  
 Noise: Available (continuous)  
 Report: Gjestland, Liasjø and Bøhn, 1990  
 Notes: Residents were surveyed before and after a change in air traffic. The effect of flight-path location on annoyance is studied.

POL-184 Polish Railway Noise Survey  
 Date: 1979 Publication (Survey date not reported)  
 Source: Railway  
 Place: Poland  
 N=: 837  
 Noise: Available (continuous)  
 Report: Koszarny, Szata and Gorynski, 1979; Koszarny, Szata and Gorynski, 1980  
 Notes: NONE

POL-198 1974 Warsaw Aircraft Noise Survey  
 Date: 1974-75 (Winter)  
 Source: Aircraft  
 Place: Poland: Warszawa-Okecie Airport  
 N=: 511  
 Noise: Available (two groups 80-90 dB(A), 100-110 dB(A))  
 Report: Koszarny and Maziarka, 1975; Koszarny, Maziarka and Szata, 1976  
 Notes: Some indications of links between health and noise are reported.

PUR-188 San Juan Community Noise Survey  
 Date: 1970's (Year of survey not determined)  
 Source: Community  
 Place: Puerto Rico: San Juan  
 N=: 642  
 Noise: Not available  
 Report: Snyder, 19??  
 Notes: Both English and Spanish versions of the questionnaire were administered.

SAF-028 1968 South Africa Preliminary Aircraft Noise Survey  
 Date: 1968 (April)  
 Source: Aircraft

Place: South Africa: Jan Smuts airport  
 N=: 120  
 Noise: Available (5 unit steps of noise index [NI])  
 Report: Mauer, 1968; van Niekerk and Muller, 1969  
 Notes: NONE

SPA-272 1981 Valencia City-Wide Survey  
 Date: 1981 (January to July)  
 Source: Road traffic  
 Place: Spain: Valencia  
 N=: 400  
 Noise: Not available  
 Report: García and Fajari, 1982; García and Fajari, 1983; García, 1983; García, Romero and Alamar, 1988  
 Notes: Self-administered questionnaires were distributed through personal channels available to the investigators.

SPA-273 1982 Valencia Five-Site Survey  
 Date: 1982 (March to June)  
 Source: Road traffic  
 Place: Spain: Valencia (5 sites)  
 N=: 490  
 Noise: Available (continuous)  
 Report: García and Fajari, 1982; García, 1983; García, Romero and Alamar, 1988  
 Notes: Respondents completed a self-administered questionnaire. The survey was designed to estimate the relationship between noise level and annoyance.

SPA-274 1982 Valencia Single-Site Survey  
 Date: 1982 (October to December)  
 Source: Road traffic  
 Place: Spain: Valencia (one site)  
 N=: 200  
 Noise: Available (continuous)  
 Report: García and Fajari, 1982; García, 1983; García, Romero and Alamar, 1988  
 Notes: Respondents completed a self-administered questionnaire. The survey was planned to study

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socio-economic and demographic differences in annoyance.

is the most important source of annoyance in this beach resort.

SPA-302 1986 Valencia Five-Site Survey

Date: 1986 (December) to 1987 (March)  
 Source: Community  
 Place: Spain: Valencia (five sites)  
 N=: 263  
 Noise: Available (continuous)  
 Report: García, Miralles, García and Sempere, 1988; García, Romero and Alamar, 1988; García, Romero, García and Arana, 1989  
 Notes: Satisfaction with the neighborhood is greater in the quieter than the noisier areas.

SPA-315 1988 Pamplona Five-Site noise survey

Date: 1988 (Spring)  
 Source: Road traffic  
 Place: Spain: Pamplona (five sites)  
 N=: 496  
 Noise: Available (continuous)  
 Report: Arana, and García, 1989; García, Romero, García, and Arana, 1989  
 Notes: Road traffic was the most annoying noise in some areas. Bars, pubs and discotheques were most annoying in other areas.

SPA-313 1984-85 Gandía Three-Site Traffic Noise Survey

Date: 1984 (Summer), 1984-85 (Winter), 1985 (Summer)  
 Source: Road Traffic  
 Place: Spain: Gandía  
 N=: 543  
 Noise: Available (continuous)  
 Report: García and Romero, 1987a; García and Romero, 1987b; García, Romero and Alamar, 1988; García, Romero, García, and Arana, 1989  
 Notes: Residents completed a self-administered questionnaire. Season of the survey does not affect response, even though there is more traffic and people are more likely to have windows open in the summer.

SPA-316 1983 Valencia Traffic Noise Survey

Date: 1983 (October, November)  
 Source: Road traffic  
 Place: Spain: Valencia, 26 streets  
 N=: 600 (725 were distributed)  
 Noise: Available (continuous)  
 Report: Díaz, et al., 1987; Manglano, Gaja, Estellés and Belmar, 1984  
 Notes: Residents were contacted who lived above the fourth floor of their buildings.

SPA-314 1987-88 Gandía Beach Resort Traffic Noise Survey

Date: 1987 (July-August), 1988 (July-August)  
 Source: Road Traffic  
 Place: Spain: Gandía (Near beach resort areas)  
 N=: 400  
 Noise: Available (continuous)  
 Report: Romero, García, and García, 1989  
 Notes: Vacationers staying in the resort city completed a self-administered questionnaire. Road traffic noise

SPA-317 1984 Gandía, City-wide Traffic Noise Survey

Date: 1984 (April) to 1985 (February)  
 Source: Road Traffic  
 Place: Spain: Gandía  
 N=: 600  
 Noise: Not available  
 Report: García and Romero, 1986; García and Romero, 1987b; García, Romero and Alamar, 1988  
 Notes: Self-administered questionnaires were distributed through personal channels available to the investigators. This is a first of several studies in this coastal resort. Permanent residents were interviewed.

SWE-011 1963 Linköping Airport Noise Study

Date: 1963 (Spring), 1964 (September)

CATALOG (Continued)

Source: Aircraft  
 Place: Sweden: Linköping Airfield  
 N=: 448 interviews from more than 272 respondents  
 Noise: Not available  
 Report: Berlin, Jonsson and Kajland, 1964; Cederlöf, Jonsson and Sörensen, 1967; Jonsson and Sörensen, 1970; Jonsson, Sörensen, Arvidsson and Berglund, 1975  
 Notes: Some of the original 272 respondents were included in the 176 respondents interviews in 1964 as part of an experiment on changing residents' attitudes toward noise. An experimental group receiving positive information about the aircraft was less annoyed than other residents. The area was later resurveyed as the Linköping I site in the Scandinavian Nine-Airport survey (SWE-035).

SWE-015 1964-1970 Karlstad Artillery Range Noise Study  
 Date: 1964-1970  
 Source: Artillery firing  
 Place: Sweden: Karlstad  
 N=: 427  
 Noise: Not available  
 Report: Jonsson, Sörensen, Arvidsson, and Berglund, 1975  
 Notes: The original 1964 study (334 interviews) was repeated in 1970 (93 interviews).

SWE-021 1966-67 Stockholm and Gothenburg Traffic Study  
 Date: 1966 (October, December), 1967 (August, September)  
 Source: Road traffic  
 Place: Sweden: Stockholm, Gothenburg  
 N=: 443 (1966), 221 (1967)  
 Noise: Available  
 Report: Fog and Jonsson, 1968; Kajland, 1970  
 Notes: The 1967 results are included as a non-clustering survey in the review by Schultz (1978: 395).

SWE-025 1967 Stockholm Comparative Traffic Noise Study  
 Date: 1967  
 Source: Road traffic  
 Place: Sweden: Stockholm  
 N=: 200  
 Noise: Available (continuous)  
 Report: Jonsson, Kajland, Paccagnella and Sörensen, 1969  
 Notes: This study was designed for comparison to the 1967 Ferrara Comparative Traffic Noise Study (ITL-318). In spite of a higher traffic noise level (measured indoors) in the Ferrara sample, those in the Stockholm sample were more annoyed. Residents living one story above street level were interviewed.

SWE-026 1967 Huddinge New Motorway Study  
 Date: 1967, 1968  
 Source: Motorway traffic  
 Place: Sweden: The Stockholm suburb of Huddinge  
 N=: 144 interviews from 84 respondents  
 Noise: Available  
 Report: Jonsson and Sörensen, 1973; Jonsson, Sörensen, Arvidsson and Berglund, 1975  
 Notes: Annoyance did not decrease between the initial interview with 84 residents (six months after a new motorway opened) and the reinterview with 60 of the same residents one year later. People who moved from the area during the year were no more annoyed than those remaining.

SWE-035 Scandinavian Nine-Airport Noise Study  
 Date: 1969, 1970, 1971, 1972, 1974, 1976  
 Source: Aircraft  
 Place: Sweden, Norway and Denmark: 38 Areas around 9 Airports  
 N=: 3746  
 Noise: Available

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- Report: Ahrlin and Rylander, 1979; Berglund, Berglund, and Lindvall, 1975; Berglund, Berglund, and Lindvall, 1987; Berglund, Berglund, Jonsson and Lindvall, 1977; Rylander, Björkman, Ahrlin, Sörensen, and Berglund, 1980; Rylander, Sörensen, Alexandre, and Gilbert, 1973; Rylander, Sörensen, and Kajland, 1972; Rylander and Sörensen, 1973; Sörensen, Berglund, and Rylander, 1973
- Notes: The 1980 publication includes 846 interviews which were not included in the earlier reports. At least some aspects of the questionnaire were changed during the eight-year study period. This study was cited in the list of surveys used by Schultz (1978).
- SWE-054** Trängslet Sonic Boom Study  
 Date: 1971 (June, July)  
 Source: Sonic booms from military aircraft  
 Place: Sweden: Trängslet  
 N=: 391  
 Noise: Available for military population  
 Report: Rylander, Sörensen and Berglund, 1972  
 Notes: The 179 questionnaires filled out by soldiers were self-administered. The 212 civilian questionnaires are from a mail survey. All booms occurred at night. Some of the military subjects indicated night-time disturbance by pushing buttons. There was also a "bed-indicator" which showed movements during sleep.
- SWE-100** Kungälv Noise Barrier Study  
 Date: 1972, 1975  
 Source: Road traffic, Expressway  
 Place: Sweden: The Kungälv area of Gothenburg  
 N=: 161 (83 in Phase I and 78 in Phase II)  
 Noise: Not available  
 Report: Holmquist, Claesson and Tuvegran, 1975
- Notes: Interviews were carried out in 1972 before, and in 1975 after a barrier was erected.
- SWE-108** Burgsvik Sonic Boom Study  
 Date: 1972 (May, June)  
 Source: Sonic booms  
 Place: Sweden: Burgsvik on the island of Gotland  
 N=: Approximately 346 interviews from approximately 200 people  
 Noise: Available  
 Report: Rylander, et al., 1974  
 Notes: After the main study period 146 people were reinterviewed. This was part of a coordinated laboratory/field study.
- SWE-142** 1976 Stockholm, Visby, Gothenburg Traffic Noise Study  
 Date: 1976 (April, May)  
 Source: Road traffic  
 Place: Sweden: Stockholm, Visby, Gothenburg  
 N=: 1377  
 Noise: Available  
 Report: Ahrlin and Rylander, 1979; Rylander, 1977; Rylander, Ahrlin, Björkman, 1977; Rylander, Sörensen, Kajland, 1976  
 Notes: Peak noise levels from heavy vehicles are especially closely related to annoyance. Gothenburg results are not included in the 1976 publication.
- SWE-165** 1976 Gothenburg Tramway Noise Survey  
 Date: 1976 (April, May)  
 Source: Tramway, Road traffic  
 Place: Sweden: Gothenburg (6 areas)  
 N=: 464  
 Noise: Available (continuous)  
 Report: Ahrlin and Rylander, 1979; Rylander, Björkman, Ahrlin, and Sörensen, 1977  
 Notes: NONE
- SWE-185** 1975 Gothenburg Rifle Range Survey

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- Date: 1975 (April, May)  
 Source: Civilian rifle range  
 Place: Sweden: Gothenburg (9 sites in 4 areas)  
 N=: 323  
 Noise: Available (continuous)  
 Report: Sörensen and Magnusson, 1979  
 Notes: The relationship between peak noise levels and annoyance is studied.
- SWE-222 Nausta Research Camp Sonic Boom Study  
 Date: 1970 Publication (Survey date not reported)  
 Source: Sonic booms from military aircraft  
 Place: Sweden: Research camp in Nausta within a Swedish military testing area  
 N=: 198  
 Noise: Available (continuous)  
 Report: Rylander, Sörensen, Berglund, and Brodin, 1972  
 Notes: The sample consists of 33 women from a testing program and 165 military recruits in road construction camps.
- SWE-223 Swedish Sleep Disturbance and Sound Insulation Study  
 Date: 1981  
 Source: Road traffic  
 Place: Sweden  
 N=: 3 (annoyance was measured on 8 nights)  
 Noise: Available for nights  
 Report: Öhrström and Björkman, 1983  
 Notes: Respondents were first interviewed in June before insulation was installed and then reinterviewed ten months later on seven consecutive nights. Bed movements were measured on four nights.
- SWE-228 1978-80 Swedish Railway Study  
 Date: 1978-1980  
 Source: Railway  
 Place: Sweden: 15 areas in Stockholm and Malmö
- N=: over 700  
 Noise: Available (continuous)  
 Report: Ahrlin and Rylander, 1979; Möhler, 1988; Sörensen and Hammar, 1983  
 Notes: NONE
- SWE-303 1986 Gothenburg Sleep Disturbance Pilot Survey  
 Date: 1986 (February, March)  
 Source: Road traffic  
 Place: Sweden: Gothenburg  
 N=: 106 (69 at high noise site, 37 at control site)  
 Noise: Available (continuous)  
 Report: Öhrström, 1988; Öhrström, 1989; Öhrström, Rylander and Björkman, 1988; Björkman, Levein, Rylander and Öhrström, 1988  
 Notes: After the initial interview, more detailed information was collected from the 63 respondents who also completed a "sleep and mood" questionnaire for three days. Reports of sleep quality and mood were lower in the noisy area than in the control area.
- SWI-053 1971 Swiss Three-City Noise Survey  
 Date: 1971 (April), 1972 (June)  
 Source: Aircraft (all three cities), Road traffic (Basel)  
 Place: Switzerland: Zurich, Geneva and Basel  
 N=: 3939  
 Noise: Available (continuous)  
 Report: Graf, Meier and Müller, 1974; Grandjean, Graf, Lauber, Meier and Mueller, 1976; Grandjean, Graf, Lauber, Meier and Mueller, 1973; Nemecek, Wehrli and Turrian, 1981; Wehrli and Nemecek, 1979  
 Notes: These data were included in a multisurvey, comparative analysis (Schultz, 1978).
- SWI-133 1976 Zurich Street Traffic Noise (Apartments) Survey  
 Date: 1976  
 Source: Street traffic

CATALOG (Continued)

- Place: Switzerland: Zurich  
 N=: 800  
 Noise: Available  
 Report: Bakke et al., 1977; Nemecek, Wehrli and Turrian, 1981; Wanner, Wehrli, Bakke, Nemecek, Turrian and Grandjean, 1977; Wehrli and Nemecek, 1979; Wehrli, Huser, Egli, Bakke and Grandjean, 1976  
 Notes: Women were interviewed who lived in apartments built after 1962.
- N=: 1607  
 Noise: Available (continuous)  
 Report: Nemecek, Wehrli and Turrian, 1981; Wehrli and Grandjean, 1979; Wehrli and Nemecek, 1979; Wehrli, Nemecek, Turrian, Hofmann, and Wanner, 1978; Wehrli, Nemecek, Turrian, Wanner, and Hofmann, 1978  
 Notes: Respondents completed a mail questionnaire.
- SWI-158 1977 Zurich Pilot Traffic Noise Survey  
 Date: 1977  
 Source: Road traffic  
 Place: Switzerland: Four areas in Zurich  
 N=: 1297  
 Noise: Available (continuous)  
 Report: Bakke, et al., 1977; Nemecek, Wehrli and Turrian, 1981; Wanner, Wehrli, Bakke, Nemecek, Turrian and Grandjean, 1977; Wanner, Wehrli, Nemecek and Turrian, 1977; Wehrli and Nemecek, 1979  
 Notes: A mail questionnaire was used. Air quality was also assessed.
- SWI-180 1979 Swiss General Aviation Survey  
 Date: 1979 (Late Summer)  
 Source: Aircraft  
 Place: Switzerland: Six general aviation airports (Bern-Belp, Birrfeld, Buttwil, Gruyeres, La Chaux-de-Fonds, and Lugano-Agno)  
 N=: 1428  
 Noise: Available (continuous)  
 Report: Institut für..., 1980  
 Notes: Noise from general aviation was not perceived to be the dominating noise problem except in the areas immediately surrounding airports.
- SWI-159 Swiss N-3 Motorway Study  
 Date: 1977 (September)  
 Source: Motorway traffic  
 Place: Switzerland: N-3 motorway in the vicinity of Sargans  
 N=: 150  
 Noise: Available  
 Report: Nemecek, Grandjean, Baumgartner, Roth, and Müller, 1978; Nemecek, Grandjean, Baumgartner, Müller, and Roth, 1979  
 Notes: A self-completion questionnaire was used. Special attention was directed at the costs of noise and at evaluating alternatives for alleviating the effects of noise.
- SWI-304 1986 Swiss Multi-storey Building Sound Insulation Study  
 Date: 1986 (April, May)  
 Source: Community, Interior noise  
 Place: Switzerland: 11 groups of buildings  
 N=: 447  
 Noise: Available for exterior noise level, sound reduction for facade and airborne sound insulation for indoor sound. (continuous)  
 Report: Rabinowitz et al., 1988  
 Notes: Mail questionnaires were used. Respondents' ratings of exterior noise, facade sound reduction and indoor sound reduction are all related to the respective measured acoustical criteria.
- SWI-173 1978 Zurich Time-of-Day Survey  
 Date: 1978  
 Source: Road traffic  
 Place: Switzerland: Zurich and vicinity (18 study sites)
- SWI-312 1984 Swiss Part of Visual Context of Noise Survey

CATALOG (Continued)

- Date: 1984  
 Source: Road traffic  
 Place: Switzerland: Zug  
 N=: 240 (approximately) surveyed but fewer are used for many analyses  
 Noise: Available (continuous)  
 Report: Kastka and Noack, 1987; Kastka, et al., 1986  
 Notes: This is part of a German/Swiss survey (GER-291) Mail questionnaires were used in Switzerland. The streets of the Swiss town were judged to be more attractive. At the same noise level, there was less annoyance for residents in the Swiss than the German town.
- TRK-283 1980-1984 Istanbul Noise Survey  
 Date: 1980 (10 sites), 1983-1984 (7 sites)  
 Source: Road Traffic, Aircraft, Railway  
 Place: Turkey: Istanbul (17 sites)  
 N=: 3179 (1460 traffic, 721 aircraft, 998 railway)  
 Noise: Available (continuous)  
 Report: Kurra, 1983; Kurra, 1988  
 Notes: Considerable annoyance with noise is found in this city in a developing country.
- UKD-001 1943 British Home Noise Survey  
 Date: 1943 (November)  
 Source: Community noise as well as noises generated inside dwellings  
 Place: U.K.: 40 cities in Great Britain  
 N=: 2017  
 Noise: Not available  
 Report: Chapman, 1948  
 Notes: NONE
- UKD-003 1952 Sound Insulation in Flats Survey  
 Date: 1952 (December), 1953 (March)  
 Source: Interior  
 Place: U.K.: London, Glasgow  
 N=: 1491  
 Noise: Sound insulation of floors is known  
 Report: Gray, 1956; Gray, Cartwright and Parkin, 1958; Pickles, 1956
- Notes: All respondents were housewives. Both airborne and impact noises from adjacent flats are disturbing.
- UKD-008 1961 Heathrow Aircraft Noise Survey (First Heathrow Survey)  
 Date: 1961 (September)  
 Source: Aircraft  
 Place: U.K.: Heathrow (London) airport  
 N=: 1731 Main study, (also a special sample of 178 complainants)  
 Noise: Available (continuous)  
 Report: McKennell, 1963; McKennell, 1965; McKennell, 1969; McKennell, 1970; McKennell, 1973; Wilson, 1963  
 Notes: The NNI (Noise and Number Index) was derived from the analysis. The study includes a subsample of complainants. These data were included in a multisurvey, comparative analysis (Schultz, 1978).
- UKD-009 1961 Central London Traffic Noise Survey  
 Date: 1961 (July, August)  
 Source: Road traffic  
 Place: U.K.: Central London  
 N=: 1377  
 Noise: Available  
 Report: McKennell and Hunt, 1966  
 Notes: Traffic noise is the most important noise heard by and bothering people.
- UKD-010 1963 Welsh Village Impulse Noise (Exercise Yellow Hammer)  
 Date: 1963 (June to September)  
 Source: Explosive charges at height of 500 feet (simulating sonic booms from aircraft)  
 Place: U.K.: One small Welsh village  
 N=: Several thousand interviews from approximately 220 respondents  
 Noise: Available  
 Report: Webb and Warren, 1967  
 Notes: Four panels of respondents were repeatedly interviewed. The level of annoyance decreased somewhat

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- over the fourteen-week study period
- UKD-024** 1967 Heathrow Aircraft Noise Study (Second Heathrow Survey)  
 Date: 1967 (September)  
 Source: Aircraft  
 Place: U.K.: Heathrow (London) airport  
 N=: 4699 main sample  
 Noise: Available (continuous)  
 Report: Directorate..., 1971; Knowler, 1971; MIL Research, 1971  
 Notes: The study was designed to be compared to the 1961 Heathrow study (UKD-008). The study includes a subsample of noise-insulated homes. These data were included in a multisurvey, comparative analysis (Schultz, 1978).
- UKD-029** 1968 Coventry Pilot Railway Noise Survey  
 Date: 1968  
 Source: Railway  
 Place: U.K.: Coventry  
 N=: 85  
 Noise: Not available  
 Report: Walters, 1970  
 Notes: Two different questionnaires were used.
- UKD-030** 1967 B.R.S. London Traffic Noise Survey  
 Date: 1967  
 Source: Road traffic  
 Place: U.K.: London Area (11 sites)  
 N=: 1200  
 Noise: Available (continuous)  
 Report: Griffiths, 1968; Griffiths and Langdon, 1968; Langdon, 1980  
 Notes: The Traffic Noise Index (TNI) was derived from the survey's results.
- UKD-033** 1969 Mixed Road and Aircraft Noise Survey  
 Date: 1969-1970 (Winter)  
 Source: Aircraft, road traffic  
 Place: U.K.: Heathrow (London) airport  
 N=: 315 (approximately)
- Noise: Available (5 Db steps)  
 Report: Bottom, 1971; Bottom and Waters, 1971; Bottom and Waters, 1972; Waters and Bottom, 1971  
 Notes: Residents in high road traffic noise environments are less annoyed by aircraft noise.
- UKD-038** 1969 Central England Railway Survey  
 Date: 1969  
 Source: Railway  
 Place: U.K.: Central England  
 N=: 258  
 Noise: Not available  
 Report: Hall, 1969; Walters, 1970  
 Notes: NONE
- UKD-050** 1970-71 Heston Noise Barrier Study  
 Date: 1970 (September) to 1971 (September)  
 Source: Road traffic  
 Place: U.K.: One site along the M14 motorway near Heston  
 N=: 458 interviews (142 before barrier, 316 after)  
 Noise: Available (continuous)  
 Report: Scholes, 1977; Scholes, Mackie, Vulkan and Harland, 1974  
 Notes: Residents were first interviewed when a relatively ineffective wooden fence was in place and later interviewed after an acoustical barrier was erected. Annoyance was reduced by more than would be expected from previous studies in other locations.
- UKD-052** 1971 Gatwick Airport Noise Survey  
 Date: 1971 (August)  
 Source: Aircraft  
 Place: U.K.: Gatwick (London) airport  
 N=: 1030  
 Noise: Available  
 Report: Ollerhead and Cousins, 1975  
 Notes: This study was designed to be compared to the 1961 and 1967 Heathrow surveys (UKD-008, UKD-

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024). Reactions were similar in the three surveys.

UKD-061 1972 Heathrow Airport Noise Pilot Survey

Date: 1972  
Source: Aircraft  
Place: U.K.: Heathrow (London) airport  
N=: 600  
Noise: Available  
Report: Ollerhead, 1973; Ollerhead, 1977b; Ollerhead, 1977c; Ollerhead, 1978; Ollerhead, 1980; Ollerhead and Edwards, 1974; Ollerhead and Edwards, 1977  
Notes: Nighttime annoyance was a major topic of this survey.

UKD-071 1972 B.R.S. London Traffic Noise Survey

Date: 1972 (Spring and summer)  
Source: Road traffic  
Place: U.K.: London Area (53 sites)  
N=: 2933  
Noise: Available (continuous)  
Report: Berry, 1983; Hood, 1977; Langdon, 1975; Langdon, 1976a; Langdon, 1976b; Langdon, 1977a; Langdon, 1977b; Langdon, 1978a; Langdon, 1978b; Langdon and Buller, 1977a; Langdon and Buller, 1977b  
Notes: This investigation is similar in some respects to the Building Research Station's earlier 1967 B.R.S. London Traffic Survey (UKD-030). Reactions were different for free-flowing and congested traffic. These data were included in a multisurvey, comparative analysis (Schultz, 1978).

UKD-072 1972 English Road Traffic Survey

Date: 1972  
Source: Road traffic  
Place: England: Probability sample of England  
N=: 6017  
Noise: Available for 1235 interviews (continuous)

Report: Hapuarachchi, 1980; Harland, 1977a; Harland, 1977b; Harland and Abbott, 1977; Hedges, 1973; Morton-Williams, Hedges and Fernando, 1978; Sando and Batty, 1975

Notes: Noise is the most important disturbance from traffic after pedestrian danger. Road traffic noise bothers more people in England than any other noise source.

UKD-073 1972 Birmingham New Motorway Study

Date: 1972 (April), 1973 (March)  
Source: Motorway traffic  
Place: U.K.: Bromford Bridge and Firs Estate in Birmingham  
N=: 363 interviews (189 in first wave, 174 in second wave)  
Noise: Available (Noise data before the motorway opened is somewhat limited)  
Report: Lawson and Walters, 1973  
Notes: Residents were interviewed both before and after the motorway was opened in May of 1972.

UKD-074 1972 London Construction Site Survey

Date: 1972  
Source: Construction  
Place: U.K.: a construction site in London  
N=: 535  
Noise: Available (continuous) for construction and road traffic  
Report: Large and Ludlow, 1975; Large and Ludlow, 1976; Ludlow, 1973; Ludlow, 1976  
Notes: This postal survey achieved a 55% response rate with two reminder letters. The questionnaires asked about many noise sources. Construction noise was more annoying than road traffic noise of the same noise level.

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UKD-080 1972 Loughborough Interrupted Traffic Flow Survey

Date: 1972  
 Source: Road traffic  
 Place: England: 12 sites  
 N=: Approximately 250  
 Noise: Available (continuous)  
 Report: Jones and Waters, 19??  
 Notes: Residents completed a postal questionnaire. Annoyance was slightly greater at the 6 interrupted-flow traffic sites than at the 6 free-flow traffic sites.

UKD-086 1973 Kew Aircraft Noise Survey

Date: 1973  
 Source: Aircraft  
 Place: U.K.: Kew London  
 N=: 469 mail interviews, 28 personal interviews  
 Noise: Available  
 Report: Edwards, 1975; Edwards and Ollerhead, 1974; Ollerhead and Edwards, 1974  
 Notes: Respondents completed a mail questionnaire about reactions to aircraft noise on the previous evening.

UKD-097 1974 English Aircraft Noise Postal Survey

Date: 1974  
 Source: Aircraft  
 Place: U.K.: Three cities (London-Heathrow, Manchester, Liverpool)  
 N=: 725  
 Noise: Available  
 Report: Ollerhead, 1977a  
 Notes: The mail questionnaire concerned annoyance with aircraft noise in the previous month. The response rate was about 24%. Reactions at the airports differed.

UKD-111 1975-76 English Mental Health Pilot Survey

Date: 1975 (April, May) 1976  
 Source: Aircraft

Place: U.K.: Two locations near Heathrow airport  
 N=: 245 interviews from 208 respondents  
 Noise: Available (5 dB steps)  
 Report: Barker and Tarnopolsky, 1978; Hede, 1979; McLean and Tarnopolsky, 1977; Tarnopolsky, 1978; Tarnopolsky, Barker, Wiggins and McLean, 1978; Tarnopolsky and Morton-Williams, 1980  
 Notes: Noise annoyance was related to psychiatric measures, but an association between noise and psychiatric measures was not widespread. Experiments with question order were included. Of the 208 respondents in 1975, 137 were reinterviewed in 1976.

UKD-112 Luton In-migrants Aircraft Noise Survey

Date: 1975 (August)  
 Source: Aircraft  
 Place: U.K.: Luton airport  
 N=: 112  
 Noise: Available  
 Report: Wrigley, 1976a; Wrigley, 1976b  
 Notes: This is a study of new residents in an airport area. Those living further from the airport are more likely to report that the noise is worst than expected.

UKD-116 1975 British National Railway Noise Survey

Date: 1975 (October), 1976 (January)  
 Source: Railway  
 Place: U.K.: Probability sample of areas near railway lines  
 N=: 1453  
 Noise: Available (continuous)  
 Report: Berry, 1983; Fields, 1977; Fields, 1979; Fields, 1983; Fields and Tomberlin, 1978; Fields and Walker, 1977a; Fields and Walker, 1977b; Fields and Walker, 1978; Fields and Walker, 1980a; Fields and Walker, 1980b; Fields and Walker, 1980c; Fields and Walker,

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1980d; Fields and Walker, 1982a; Fields and Walker, 1982b; Fields, Walker and Large, 1976; Garnsworthy, 1977; Phillips, 1978; Richardson, 1976; Walker and Fields, 1977; Walker and Fields, 1978; Walker and Fields, 1980; Windle, 1977

Notes: The interview was administered in two slightly different forms to test question order and question wording effects. A comparison with previous surveys showed that railway noise is less annoying than road traffic and aircraft noise at the same noise levels.

UKD-118 1975-76 London and Liverpool Panel Survey

Date: 1975 (November), 1976 (January, March)

Source: Road traffic

Place: U.K.: London and Liverpool

N=: 738 interviews from 413 respondents

Noise: Available

Report: Griffiths and Delauzun, 1977a; Griffiths and Delauzun, 1977b

Notes: Of the 413 original respondents, 325 were reinterviewed one year later. Variation in individual annoyance scores is due more to random response measurement error than to individual differences in sensitivity. Twenty-five of the respondents were also given two self-administered personality tests which were found to not be related to annoyance.

UKD-119 1975 Great Britain Interior Noise Survey

Date: 1975

Source: Interior noise from adjacent dwellings

Place: U.K.: Great Britain

N=: 3122

Noise: Measurement of attenuation not available

Report: Langdon and Buller, 1977b

Notes: Respondents lived in dwelling units sharing a common wall with another dwelling. Residents in newly constructed dwellings were not less annoyed than respondents in surveys from earlier periods.

UKD-130 1976 Heathrow Concorde Noise Survey

Date: 1976

Source: Aircraft

Place: U.K.: Heathrow (London) England

N=: 2631

Noise: Available (continuous)

Report: Large and Ludlow, 1977; McKennell, 1977; McKennell, 1978; McKennell, 1980

Notes: Vibration is relatively annoying for Concorde noise. It was not possible to assess the effect of Concorde noise on overall aircraft noise annoyance. Residents found Concorde less annoying than they had expected.

UKD-132 1976 Darlington Quiet Town Survey

Date: 1976 (June)

Source: Community

Place: U.K.: Probability sample of Darlington

N=: 494

Noise: Not available

Report: Jupp and Sutton, 1976; Landon, 1976

Notes: This is the before-treatment survey for the Darlington Quiet Town Experiment. (Survey UKD-199 is the after-treatment survey.) About 20% were annoyed by road traffic noise at home (the most annoying source) but about 30% of those who work were annoyed by noise at work.

UKD-147 1977 Heathrow Nighttime Pilot Survey

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- Date: 1977 (December), 1978 (January to April)  
 Source: Aircraft  
 Place: U.K.: Heathrow (7 sites)  
 N=: 1055 (279 face-to-face interviews, 776 postal questionnaires)  
 Noise: Available (continuous)  
 Report: Directorate..., 1978a; Directorate..., 1978b; Directorate..., 1978c; Directorate..., 1979; Prescott-Clarke and Stowell, 1983  
 Notes: Though there were some differences, broadly similar answers were found on postal and interviewer-administered surveys.
- UKD-148 1977 West London (Heathrow) Psychiatric Morbidity Survey  
 Date: 1977 (April through Autumn)  
 Source: Aircraft  
 Place: England: West London area near Heathrow airport  
 N=: 5885  
 Noise: Available  
 Report: Tarnopolsky, Hand, Barker, and Jenkins, 1980; Tarnopolsky, Jenkins, Watkins, and Hand, 1980; Tarnopolsky and Morton-Williams, 1980; Tarnopolsky, Watkins, and Hand, 1980; Watkins, Tarnopolsky, and Jenkins, 1981  
 Notes: Reports of some symptoms were related to annoyance within high noise level areas. Question order experiments were conducted. A detailed followup survey was conducted with 77 women (UKD-305).
- UKD-157 1977 London Area Panel Survey  
 Date: 1977 (December), 1978 (September)  
 Source: Road traffic  
 Place: U.K.: London area (6 sites)  
 N=: 1363 interviews from 507 respondents  
 Noise: Available (continuous)  
 Report: Atkins Research and Development, 1979; Griffiths, Langdon and Swan, 1980; Langdon and Griffiths, 1982
- Notes: The same interview questions were asked of a panel of respondents at different times of the year. Some 364 respondents were interviewed four times. Alternative question wordings, question instructions, and question ordering were examined. The monetary evaluation of noise nuisance was examined.
- UKD-160 1977 Hampshire Village Noise Study  
 Date: 1977 (October) to 1978 (January)  
 Source: Community, road traffic  
 Place: England: 10 villages in Hampshire and Wiltshire  
 N=: 756  
 Noise: Available (continuous)  
 Report: Hawkins, 1979a; Hawkins, 1979b; Hawkins, 1980; McEntagart, 1980; Prescott-Clarke, 1978  
 Notes: Residents are no more annoyed by traffic noise of the same noise level in these rural areas than they were in an earlier survey of the general population of England (UKD-072). Respondents liked some sounds in their environment.
- UKD-161 1977 Southampton Hovercraft Noise Survey  
 Date: 1977  
 Source: Hovercraft  
 Place: U.K.: Neighborhoods near Southampton Water  
 N=: 241  
 Noise: Available (5 dB steps)  
 Report: Samra, 1978  
 Notes: In some areas hovercraft noise was as disturbing as road traffic noise.
- UKD-162 Greater Manchester Traffic Survey  
 Date: 1977 Publication (Survey date not reported)  
 Source: Road traffic  
 Place: U.K.: Greater Manchester area  
 N=: 846  
 Noise: Available

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Report: Berry, 1983; Rossall, 1978; Wilcox, 1978; Yeowart, Wilcox and Rossall, 1977a; Yeowart, Wilcox and Rossall, 1977b  
Notes: Nighttime noise from vehicles aided in predicting reactions to noise.

UKD-175 1978 Southampton Hovercraft Terminal Noise Survey

Date: 1978  
Source: Hovercraft  
Place: U.K.: Southampton area near Hovercraft Terminal  
N=: 52  
Noise: Available (continuous)  
Report: Hutton, 1978  
Notes: Hovercraft noise is more annoying than other noise sources near the terminal area. The survey was designed to be compared to the 1977 Solent Hovercraft Survey (UKD-161).

UKD-176 1978 ISVR Lab/Field Comparison Survey

Date: 1978 (June, July)  
Source: Road traffic  
Place: U.K.: A neighborhood in Southampton, England  
N=: 60  
Noise: Available (continuous)  
Report: Flindell, 1979; Flindell, 1982  
Notes: As part of a laboratory/field comparison study, the residents were first interviewed at home and then brought into a simulated living room listening facility to rate recorded traffic noise. Annoyance in the laboratory was not affected by the home noise environment.

UKD-182 1979 Heathrow and Gatwick Sleep Study (Aircraft Noise and Sleep Disturbance)

Date: 1979 (June to October)  
Source: Aircraft  
Place: U.K.: Two airports (17 sites near Heathrow, 8 sites near Gatwick)  
N=: 964 personal, 3188 postal

Noise: Available (continuous)  
Report: Davies, Brooker, and Critchley, 1987; Directorate..., 1980a; Directorate..., 1980b; Directorate..., 1980c; Directorate..., 1980d; Directorate..., 1980e; Directorate..., 1980f; Makinson, 1979

Notes: Both personal interviews and postal questionnaires were used. The nighttime noise environment was measured. Some questions were asked about experiences on the previous night. A large scale preliminary study was also carried out (UKD-147).

UKD-199 1978 Darlington Quiet Town Survey

Date: 1978 (June)  
Source: Community  
Place: U.K.: Probability sample of Darlington  
N=: 488  
Noise: Not available  
Report: Jupp and Landon, 1978  
Notes: This follows an earlier study (UKD-132) of the Darlington Quiet Town Experiment. After two years, most people were aware of the quiet city campaign. Noise annoyance was not reduced in the neighborhoods.

UKD-220 1978 British Interior Noise Survey

Date: 1978 (November)  
Source: Interior noise from adjacent dwellings  
Place: U.K.: Great Britain  
N=: 917  
Noise: Airborne sound insulation values of party walls available  
Report: Langdon, Buller and Scholes, 1981  
Notes: NONE

UKD-224 1982 Manchester Night Noise Survey

Date: 1982 (September 11 to September 26)  
Source: Aircraft

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- Place: United Kingdom: Six sites around Manchester airport  
 N=: 595  
 Noise: Available (continuous)  
 Report: Brooker and Nurse, 1983; Monkman, 1983; Morton-Williams, 1983; Nurse, 1983  
 Notes: Respondents completed self-administered questionnaires on the morning following a night when noise data had been collected. The questionnaire included questions about that nights' sleep experience. Findings about reports of sleep disturbance can be compared to an earlier study around Heathrow and Gatwick (UKD-182).
- UKD-225 1982 British Helicopter Disturbance Study  
 Date: 1982 (August 20 to September 13)  
 Source: Helicopters  
 Place: United Kingdom: Five areas affected by the Gatwick-Heathrow helicopter airlink and two areas near Aberdeen airport  
 N=: 438  
 Noise: Available (continuous)  
 Report: Atkins, 1983; Atkins, Brooker and Critchley, 1983; Atkinson, 1983; Prescott-Clarke, 1983  
 Notes: NONE
- UKD-233 1980 British Flats' Sound Insulation Survey  
 Date: 1980 (August, September)  
 Source: Interior noise  
 Place: England and Wales: 63 sites with multistory residential apartments  
 N=: 709  
 Noise: Available (Sound insulation of floors and walls)  
 Report: Langdon, Buller and Scholes, 1983  
 Notes: The main interest was in the sound insulation from noise originating in other flats. Other sources of noise in the building were also found to be important. Comparisons are made with the earlier survey of houses (UKD-220). People were more annoyed by impact sounds from overhead flats, than with airborne sound. Physical measures of the impact sound insulation were not related to occupants' experiences.
- UKD-237 1983-84 Southern England New Road Opening Survey  
 Date: 1983-1984  
 Source: Road traffic  
 Place: England: Eight sites with noise level reductions (Bedfordshire, Essex, Kent, Suffolk) or increases (Surrey, Alderney (Dorset))  
 N=: 469 in "before" survey, 391 in "after" survey  
 Noise: Available  
 Report: Griffiths and Raw, 1984; Griffiths and Raw, 1986; Griffiths and Raw, 1989  
 Notes: A total of 469 residents were interviewed from one to four months before the opening of the new road (one site was in the process of changes). Of these, 391 were reinterviewed two to three months after the opening of the new road.
- UKD-238 1984 Glasgow Combined Aircraft/Road Traffic Survey  
 Date: 1984 (May, June)  
 Source: Aircraft, road traffic  
 Place: U.K.: Glasgow airport  
 N=: 608  
 Noise: Available  
 Report: Atkinson, Critchley and Devine, 1985; Diamond and Rice, 1987; Diamond and Walker, 1986a; Diamond and Walker, 1986b; Diamond, Walker, Critchley and Richmond, 1986; Richmond, 1985; Walker, 1986  
 Notes: This survey was designed under Commission of European Communities auspices to be compared to an Orly Survey (FRA-

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239) and a Schiphol Survey (NET-240).

UKD-241 1982 Heathrow Combined Aircraft/Road Traffic Survey

Date: 1982 (July, September)  
 Source: Aircraft, Road traffic  
 Place: England: Heathrow Airport  
 N=: 417  
 Noise: Available  
 Report: Cooper, Diamond, Rice and Walker, 1984  
 Notes: The sample is located in five aircraft noise areas with a high and low ambient noise site in each. This study was conducted as an extension of the 1982 Aircraft Noise Index Study (UKD-242). Ambient noise does not consistently influence aircraft noise annoyance.

UKD-242 1982 United Kingdom Aircraft Noise Index Study (ANIS study)

Date: 1982 (July to September)  
 Source: Aircraft  
 Place: U.K.: 5 airports (Heathrow, Gatwick, Luton, Manchester, Aberdeen)  
 N=: 2097  
 Noise: Available  
 Report: Atkins, Nurse and Richmond, 1984; Brooker, 1983; Brooker and Richmond, 1985a; Brooker and Richmond, 1985b; Brooker, Critchley, Monkman and Richmond, 1985; Prescott-Clarke, 1983  
 Notes: Results from a 1980 pilot survey were not reported.  $L_{eq}$  provides a better weighting of number of events than does NNI. A 1982 ambient noise survey (UKD-241) was conducted as an extension of this study.

UKD-243 1981 United Kingdom General Aviation Airport Survey

Date: 1981 (Summer, Early Autumn)  
 Source: Aircraft

Place: U.K.: Coventry, Kidlington, Leavesden, Shoreham, Staverton  
 N=: 399

Noise: Available

Report: Brooker, 1982; Brooker and Davies, 1983; Brooker and Davies, 1984; Diamond, Walker, Ollerhead, Critchley and Bradshaw, 1987; Directorate..., 1982a

Notes: Noise annoyance at one general aviation airport (Leavesden) is similar to large airports. Residents at the other general aviation airports are less annoyed.

UKD-266 1971-1972 Alton By-pass Study (Residents)

Date: 1971 (July), 1972 (July)  
 Source: Road traffic  
 Place: England: Alton (Hampshire) [Some interviews came from nearby Bentley]

N=: 388 interviews (fewer respondents)

Noise: Available (continuous)

Report: Dawson, 1973

Notes: Some 225 respondents from 135 homes were interviewed in July 1971. After the September bypass opening, 163 respondents from 97 homes were interviewed in July of 1972. Some homes (48) were included in both studies. Some interviews came from areas unaffected by the bypass. A different interview was administered to a sample of pedestrians and people in shops and offices.

UKD-267 Lake District A66 Traffic Change Study (Residents)

Date: 1973, 1977, 1978 (August and September in all years)

Source: Road traffic

Place: England: Lake District (Vicinity of Cockermouth and Keswick)

N=: 1596 (794 in 1973, 775 in 1977/1978)

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- Noise: Not available (Numbers of vehicles counted)  
 Report: Prescott-Clarke, 1974; Prescott-Clarke, 1977; Prescott-Clarke, 1979; Prescott-Clarke, 1980  
 Notes: Different samples of residents were interviewed in 1973 (construction started in 1974) and in 1977 and 1978 shortly after construction was completed. The changes in the road were seen as improvements by both residents and visitors.
- UKD-268 TRRL Multiple-Site Road Traffic Flow Change Study (Residential)  
 Date: 1975-1976 for at least some sites (Tring: June 1975, September 1975, around December 1976; Mere: May 1976, September 1976; Boughton, Bridge and Dunkirk: 1976)  
 Source: Road traffic  
 Place: England: Tring, Mere, Bridge, Lewes, East Grinstead, Ludlow, Leeds (2 locations), Boughton (Only surveyed after change)  
 N=: At least 832 interviews from at least 582 respondents. (Tring: 132 before change, 126 after change; Mere: 173 before, 123 after; Boughton: 165 after; Bridge 113 [before and after combined]:)  
 Noise: Available (continuous)  
 Report: Griffiths and Raw, 1989; Langdon and Griffiths, 1982; Mackie and Davies, 1981; Mackie and Griffin, 1977; Mackie and Griffin, 1978a; Mackie and Griffin, 1978b; Mackie and Forster, 1978  
 Notes: At most study sites, residents were interviewed both before and after road traffic flows changed. Traffic was reduced at most sites by new bypasses. In Leeds, however, a lorry control scheme decreased noise levels at one site and increase it at another.
- UKD-270 1983 English Road Traffic Vibration Survey  
 Date: 1983 (April)  
 Source: Road traffic  
 Place: England: Southern England  
 N=: 1625 over 50 sites  
 Noise: Available (continuous) Vibration measurements also available  
 Report: Watts, 1984; Watts, 1985; Watts, 1987  
 Notes: Measured noise levels are related to vibration annoyance. It was not possible to determine whether measured vibration levels are significantly related to vibration annoyance. Noise was more annoying than vibration at all surveyed sites.
- UKD-277 TRRL Four-Road Laboratory/Field Comparison Study  
 Date: 1980 Publication (Survey date not reported)  
 Source: Road traffic  
 Place: England: Four roads in Berkshire and Surrey  
 N=: 173  
 Noise: Available (continuous)  
 Report: Rosman, 1980  
 Notes: Respondents were recruited for the laboratory study. They filled out a self-completion questionnaire after coming to the laboratory about their living experience with their own road. They also rated the other roads during a visual and auditory presentation in the laboratory. Laboratory assessments were not affected by the subject's own home environment. The laboratory assessments were not substitutes for home assessments.
- UKD-284 1983 English 11-Site Gypsy Traffic Noise Survey  
 Date: 1983 (February, March)  
 Source: Road traffic  
 Place: England: (Surrey County) 11 temporary gypsy camp sites  
 N=: 149  
 Noise: Available (continuous)

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Report: Griffiths, Raw, Hill and Storrar, 1985; Survey of Gipsy..., 1983

Notes: These gypsies lived in mobile homes and were not permanently settled at the sites. They reported less noise annoyance at the same noise level than had a stable population in a previous survey (UKD-157).

UKD-296 1985 Great Britain Neighborhood Noise Survey

Date: 1985 (November)

Source: Community noise (especially noise from neighbors)

Place: Great Britain: Representative probability sample

N=: 4886 structured interviews (31 semi-structured, follow-up interviews)

Noise: Not available

Report: Utley and Keighley, 1988

Notes: Noise from neighbors and other people nearby is the most widespread source of noise disturbance, even ahead of traffic noise. The information on noise is drawn from a few questions included in a multi-purpose, national omnibus opinion survey.

UKD-297 1985 Follow-up of 1983 New Road Opening Survey

Date: 1985 (March, April)

Source: Road Traffic

Place: England: Coggeshall, Ampthill, Beccles

N=: 90

Noise: Available (continuous)

Report: Griffiths and Raw, 1989

Notes: These respondents had previously been interviewed before the reduction in noise environment and at two to three months after the change in noise environment (UKD-237). In the present survey, 17-22 months after the change, annoyance was still higher than predicted from some other surveys.

UKD-298 1985 Follow-up of TRRL Multiple-Site Traffic Flow Change Study

Date: 1985

Source: Road Traffic

Place: England: Boughton, Bridge, Mere, Lewes, East Grinstead

N=: 430

Noise: Available (Estimated from traffic flow data)

Report: Griffiths and Raw, 1989

Notes: After a gap of from seven to nine years, interviews were repeated in five areas which had previously been studied before and after changes in traffic noise environments. New residents are more annoyed than those who experienced the change.

UKD-305 1980-83 Noise Sensitivity Follow-up Survey

Date: 1980 (July-September), 1983 (November, December)

Source: Aircraft noise

Place: England: West London areas near Heathrow airport

N=: 137 (77 respondents, 60 reinterviewed in 1983)

Noise: Available

Report: Stansfeld, 1983; Stansfeld, 1988; Stansfeld, Clark, Jenkins and Tarnopolsky, 1985a; Stansfeld, Clark, Jenkins and Tarnopolsky, 1985b

Notes: A total of 77 women participants in a 1977 Heathrow survey (UKD-148) were interviewed in 1980. In 1983, 60 of the participants completed an additional self-completion questionnaire and provided psychological and physiological data. Some differences were found between high and low noise-sensitive subjects.

UKD-309 1977 Hamble Airfield Survey

Date: 1977 (October) to January, 1978)

Source: Aircraft

Place: England: Hamble

CATALOG (Continued)

- N=: 445 (probability sample within 3 miles of airport)  
 Noise: Available (continuous)  
 Report: Directorate..., 1982b; Stowell and Makinson, 1979  
 Notes: The airfield is almost entirely a training center for single and twin-piston engined aircraft. Annoyance is not related to 12-hour NNI. Most respondents were below 35 NNI. The amount of annoyance was similar to that below 35 NNI around Heathrow.
- USA-004 1953 U.S.A. Eight-Airport Noise Survey  
 Date: 1953 (Spring and Fall)  
 Source: Aircraft  
 Place: U.S.A.: Eight airports in 7 cities (Atlanta, Chicago, Memphis, Miami, Minneapolis, Philadelphia, St. Louis, Idlewild (New York), La Guardia (New York))  
 N=: 3635  
 Noise: Available  
 Report: Borsky, 1954; Borsky, 1961a  
 Notes: Fear and aircraft noise annoyance are related.
- USA-006 1957 U.S.A. Air Force Base Noise Survey  
 Date: 1957 (May to July) (Pilot in June, July 1956)  
 Source: Aircraft  
 Place: U.S.A.: One East coast and one West coast Tactical Air Command Base (Also a pilot study at a West coast Strategic Air Command base)  
 N=: 1598 in main study, (732 in pilot study)  
 Noise: Available (5 dB steps)  
 Report: Borsky, 1961a; Borsky, 1961b  
 Notes: This is one of the first studies of reactions to jet aircraft noise. Annoyance is increased by fear of aircraft crashes. One report presents results from several rounds of preliminary unstructured interviews (Borsky, 1961a).
- USA-007 1961 St. Louis Sonic Boom Study  
 Date: 1961 (November, December), 1962 (January)  
 Source: Sonic booms from military aircraft  
 Place: U.S.A.: St. Louis Area  
 N=: Approximately 2,200 interviews from approximately 1,157 respondents  
 Noise: Not available  
 Report: Borsky, 1962; Nixon and Borsky, 1966; Nixon and Hubbard, 1965  
 Notes: A total of 1,043 people were reinterviewed. Both telephone and face-to-face interviews were used for the reinterview. Some interviews were carried out to test for reinterviewing effects and to test for differences between face-to-face and telephone interviewing.
- USA-012 1964 Oklahoma City Sonic Boom Study  
 Date: 1964  
 Source: Sonic booms from military aircraft  
 Place: U.S.A.: Oklahoma City area  
 N=: 7997 interviews from approximately 3200 respondents  
 Noise: Not available  
 Report: Borsky, 1965  
 Notes: Most original respondents were reinterviewed twice by telephone. Some interviews were conducted to test for reinterviewing effects and to test for differences between telephone and personal interviews. Some changes occurred in the questionnaire between waves.
- USA-020 1966 U.S.A. Three-City Community Noise Study  
 Date: 1966  
 Source: Community, Road traffic  
 Place: U.S.A.: Los Angeles, Boston, New York  
 N=: 259  
 Noise: Not available  
 Report: Bolt Beranek and Newman, 1967  
 Notes: NONE

CATALOG (Continued)

USA-022 1967 U.S.A. Four-Airport Survey  
(Phase I of Tracor Survey)

Date: 1967 (May to August)  
Source: Aircraft  
Place: U.S.A.: 4 Airports; Chicago, Dallas,  
Denver, Los Angeles  
N=: 3590  
Noise: Available (continuous)  
Report: Connor, 1968; Connor and  
Patterson, 1972; Connor and  
Patterson, 1976; Hazard, 1968;  
Hazard, 1971; Patterson, 1975;  
Patterson and Connor, 1973;  
Tracor, 1971

Notes: This is the first of three surveys  
(USA-044, USA-032). This first  
survey's questionnaire differed  
substantially from the other two.  
These data were examined in a  
multisurvey, comparative analysis  
(Schultz, 1978).

USA-023 1967-68 SR-71 Supersonic Aircraft  
Noise Study

Date: 1967-1968  
Source: Sonic booms  
Place: U.S.A.: Six metropolitan areas;  
Atlanta, Chicago Dallas, Denver,  
Los Angeles, Minneapolis  
N=: 6375 interviews (Some respondents  
were interviewed more than once.)  
Noise: Not available  
Report: Tracor, 1970  
Notes: Some interviews were held before,  
during and after the supersonic  
overflights. The questionnaire  
was altered between interview  
phases. The study includes a  
subsample of complainants.

USA-027 1968 LAX Aircraft Noise Study

Date: 1968 (October)  
Source: Aircraft  
Place: U.S.A.: Los Angeles International  
Airport  
N=: 200  
Noise: Not available  
Report: Zamarin, Langdon, and Gabriel,  
1971

Notes: This was a qualitative planning  
study for the 1969 LAX study  
(USA-031).

USA-031 1969 LAX Aircraft Noise Study

Date: 1969 (Autumn)  
Source: Aircraft  
Place: U.S.A.: Los Angeles International  
Airport  
N=: 500  
Noise: Not available  
Report: Burrows and Zamarin, 1972;  
Zamarin, Langdon and Gabriel,  
1971  
Notes: NONE

USA-032 1969 U.S.A. Three-Airport Survey  
(Phase II Tracor Survey)

Date: 1969 (July to November)  
Source: Aircraft  
Place: U.S.A.: Three Airports; Boston,  
Miami, New York  
N=: 2912  
Noise: Available (continuous)  
Report: Connor and Patterson, 1972;  
Connor and Patterson, 1976;  
Edmiston, 1972; Hazard, 1971;  
Patterson, 1975; Patterson and  
Connor, 1973; Tracor, 1971  
Notes: This is the second of a series of  
three surveys (USA-022, USA-044).  
The interview is almost identical  
to the third survey's interview  
(USA-044). These data were  
examined in a multisurvey,  
comparative analysis (Schultz,  
1978).

USA-039 San Francisco Three-Street Pilot  
Study

Date: 1969-1970  
Source: Community  
Place: U.S.A.: San Francisco  
N=: 36  
Noise: Available  
Report: Appleyard and Lintell, 1972  
Notes: This study explores a wide range  
of reactions and behavior  
associated with many aspects of  
traffic (including noise).

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- USA-040 1969 Inglewood Community Noise Survey  
 Date: 1969 (December)  
 Source: Community  
 Place: U.S.A.: Inglewood (California)  
 N=: 13,000  
 Noise: Available for aircraft (noise levels are averages for census tracts)  
 Report: Toward a Quality City, 1972  
 Notes: The study is briefly described on pages 105 and 106 in the publication.
- USA-043 Los Angeles Freeway Five-Site Study  
 Date: 1969 Publication (Survey date not reported)  
 Source: Freeway traffic  
 Place: U.S.A.: Los Angeles  
 N=: 325 (Five study sites)  
 Noise: Available  
 Report: Galloway, Clark and Kerrick, 1969  
 Notes: The relationship between noise level and annoyance was very weak but statistically significant.
- USA-044 1970 U.S.A. Small City Airports (Small City Tracor survey)  
 Date: 1970 (October) to 1971 (January)  
 Source: Aircraft  
 Place: U.S.A.: Two airports; Chattanooga, Reno  
 N=: 1960  
 Noise: Available (continuous)  
 Report: Connor and Patterson, 1972; Connor and Patterson, 1976; Patterson, 1975; Patterson and Connor, 1973  
 Notes: This is the third of a series of three surveys (USA-022, USA-032). The interview is almost identical to the second survey's interview (USA-032). These data were examined in a multisurvey, comparative analysis (Schultz, 1978).
- USA-047 1970 Minneapolis Freeway Noise Study  
 Date: 1970 (July, August)
- Source: Expressway traffic  
 Place: U.S.A.: Interstate Highway I35W in Minneapolis, Minnesota  
 N=: 148  
 Noise: Not available  
 Report: Bouchard, 1970; Lambert, 1971; Highway Traffic Noise..., 1971  
 Notes: The 1972 Minneapolis Freeway Noise Barrier Study (USA-069) was also conducted in this area.
- USA-048 1970 C.R.P. Inglewood Community Noise Survey  
 Date: 1970 (January)  
 Source: Aircraft, Community  
 Place: U.S.A.: Inglewood (California)  
 N=: 5,500  
 Noise: Available for aircraft (level is averaged across-census tracts)  
 Report: Toward a Quality City, 1972  
 Notes: A mailed survey was used (13% response rate).
- USA-049 Cedar Rock Drive Neighborhood Noise Investigation  
 Date: 1970  
 Source: Manufacturing plant noise in a community  
 Place: U.S.A.: A neighborhood in Pickens, South Carolina  
 N=: 17  
 Noise: Available (continuous)  
 Report: Hart, Reiter and Royster, 1972  
 Notes: Two of the 17 respondents were in business establishments. Only one question was asked of each person. The study was used in a court case.
- USA-051 1971 J.F.K. Dynamic Preferential Runway System Survey  
 Date: 1971 (August, September)  
 Source: Aircraft  
 Place: U.S.A.: John F. Kennedy Airport (New York)  
 N=: 441  
 Noise: Not available  
 Report: Patterson, Edmiston, and Connor, 1972

CATALOG (Continued)

Notes: Study areas were chosen to provide a closely comparable sample to that from the 1969 Tracor study (USA-032) to study changes in reactions due to a new dynamic preferential runway system at J.F.K. The two-month trial period was too short a time for an adequate evaluation.

USA-057 U.S.A. Vehicle Noise Situation Survey

Date: 1971 Publication (Survey date not reported)  
Source: Road traffic  
Place: U.S.A.: Boston, Los Angeles, Detroit  
N=: 1201 (60 sites)  
Noise: Available for respondents at 20 sites  
Report: Bolt Beranek and Newman, 1971a; Bolt Beranek and Newman, 1971b; Jones, 1971  
Notes: These telephone interviews followed a loosely structured, conversational format. The survey explored the "vehicle noise situations which annoyed" respondents.

USA-058 Philadelphia Community Noise Survey

Date: 1969 Publication (Survey date not reported)  
Source: All community noise identified in Philadelphia  
Place: U.S.A.: Philadelphia  
N=: 500  
Noise: Not available  
Report: Bragdon, 1969; Bragdon, 1971  
Notes: Length of residence does not affect annoyance.

USA-059 1972 J.F.K. Airport Noise Survey

Date: 1972 (February, March, August, October)  
Source: Aircraft  
Place: U.S.A.: John F. Kennedy airport (New York)  
N=: 2930 interviews from 1465 respondents

Noise: Available (continuous) but annoyance responses are not reported by noise level  
Report: Borsky, 1974a; Borsky, 1975; Borsky, 1976a; Borsky, 1976b; Borsky and Leonard, 1973; Leonard and Borsky, 1973

Notes: The initial face-to-face interviews were followed by repeated interviews by telephone.

USA-060 1972 Portland Northshore Aircraft Survey

Date: 1972 (November)  
Source: Aircraft  
Place: U.S.A.: Portland, Oregon  
N=: 303  
Noise: Not available  
Report: Yaden and West, 1972  
Notes: NONE

USA-066 1972 BART Residential Impact Survey

Date: 1972  
Source: Suburban railway system (Bay Area Rapid Transit system)  
Place: U.S.A.: San Francisco area  
N=: 2541  
Noise: Not available  
Report: Appleyard and Carp, 1973; Carp and Carp, 1982a; Carp and Carp, 1982b; Carp and Carp, 1982c; Carp, Zawadski and Shokron, 1976  
Notes: The survey is part of a larger, multi-sample assessment project. Trains were running on a trial basis before the Bay Area Rapid Transit system (BART) opened to passengers. Noise annoyance is less for older respondents.

USA-067 1972 Boulder Community Noise Survey

Date: 1972 (March, April)  
Source: Community  
Place: U.S.A.: Boulder, Colorado  
N=: 917  
Noise: Not available  
Report: Chanaud, 1972

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- Notes: Motorcycles, road traffic and barking dogs are the most significant noise problems.
- USA-068 1972 College Park Community Noise Survey  
Date: 1972  
Source: Community  
Place: U.S.A.: College Park (Georgia)  
N=: 280  
Noise: Available  
Report: Lambert, et al., 1973  
Notes: Annoyance is not correlated with noise level.
- USA-069 1972 Minneapolis Freeway Noise Barrier Study  
Date: 1972 (June to August), 1973 (July, August)  
Source: Expressway traffic  
Place: U.S.A.: Interstate Highway I-35W at Minnehaha Creek in Minneapolis, Minnesota  
N=: 272 interviews (from about 205 respondents)  
Noise: Available for the first three rows of houses  
Report: Lambert, 1978; Lambert and Bouchard, 1974  
Notes: Residents were interviewed before and about seven months after a barrier was installed. The barrier reduced noise levels and annoyance. An earlier study (USA-047) had been conducted in the same area.
- USA-070 1972 Eastern U.S.A. Four-Community Highway Noise Survey  
Date: 1972  
Source: Freeway traffic  
Place: U.S.A.: Four communities (Bogota (New Jersey), Towson (Maryland), North Springfield (Virginia), Rosedale (Maryland))  
N=: 1114  
Noise: Available  
Report: Gamble, Langley, Pashek, Sauerlender and Twark, 1973;
- Gamble, Sauerlender and Langley, 1974; Humphrey, 1973  
Notes: The study examined both positive and negative effects of highways (including noise) on property values.
- USA-081 Boulder Newspaper Community Noise Survey  
Date: 1972 Publication (Survey date not reported)  
Source: Community  
Place: U.S.A.: Boulder (Colorado)  
N=: 215  
Noise: Not available  
Report: Chanaud, 1972  
Notes: Readers selected themselves by mailing in a form printed in the Boulder Camera newspaper. Motorcycles, road traffic and barking dogs were the most significant noise problems.
- USA-082 1973 Los Angeles Airport Night Study  
Date: 1973 (April to June)  
Source: Aircraft  
Place: U.S.A.: Los Angeles International Airport  
N=: 1417 interviews, from 940 respondents  
Noise: Available (5 dB steps)  
Report: Fidell and Jones, 1975  
Notes: Telephone interviews were conducted once before and twice after late night flights were reduced. Interviews were conducted in both English and Spanish. Annoyance was not reduced by the reduction in nighttime noise exposure. These data were included in a multisurvey, comparative analysis (Schultz, 1978).
- USA-083 1973 LAX Airport Noise Study  
Date: 1973 (December)  
Source: Aircraft  
Place: U.S.A.: Los Angeles International Airport

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N=: 880  
Noise: Not available  
Report: Olson Laboratories, 1976; Opinion Research of California, 1975  
Notes: NONE

USA-084 1973 J.F.K. Airport Noise Study  
Date: 1973 (Autumn)  
Source: Aircraft  
Place: U.S.A.: John F. Kennedy airport in New York City  
N=: 1059  
Noise: Not available  
Report: Borsky, 1974b  
Notes: The primary purpose of the field program was to recruit laboratory subjects.

USA-085 1973 Seattle-Tacoma Airport Noise Study  
Date: 1973 (May to July)  
Source: Aircraft  
Place: U.S.A.: Seattle-Tacoma International Airport (three community areas)  
N=: 716  
Noise: Available for 285 respondents (continuous)  
Report: Fiedler and Fiedler, 1974; Fiedler and Fiedler, 1975; Hughes and Mabry, 1976  
Notes: About half of the respondents (those in a control group) were interviewed by telephone. The number of open windows and presence of outdoor equipment was similar in high aircraft noise and other areas. Two of the three study areas were far from the airport and served as control groups.

USA-088 1973 U.S.C. Los Angeles Freeway Noise Study  
Date: 1973 (July) to 1974 (January)  
Source: Freeway traffic  
Place: U.S.A.: Los Angeles  
N=: 696 from main sample (An additional 59 interviews from new freeway sites were not analyzed.)  
Noise: Available (continuous)

Report: Jenkins and Pahl, 1975; Jenkins, Pahl, Carroll, Alyassini and Heller, 1974; Small and Jenkins, 1982; Small, Jenkins and Carroll, 1976; Small, Jenkins and Pahl, 1974  
Notes: Subjective feelings about noise are more closely correlated with response to noise than behavioral measures. Residents are annoyed by freeway noise even if they do not report activity interference.

USA-089 Portland-Multnomah Community Noise Survey  
Date: 1973 (September-November)  
Source: Community  
Place: U.S.A.: City of Portland and Multnomah County (Oregon)  
N=: 59  
Noise: Not available  
Report: MAN-Acoustics Noise, 1975  
Notes: Motor vehicle noise is the largest contributor to noise annoyance.

USA-090 1973 E.P.A. Community Noise Questionnaire Pilot Study  
Date: 1973  
Source: Community, Aircraft  
Place: U.S.A.: Los Angeles, New York  
N=: 179  
Noise: Available  
Report: Sutherland, Braden and Colman, 1973  
Notes: The study was carried out in four diverse types of areas to test an interview intended for general use by the U.S. Environmental Protection Agency.

USA-091 1973 Test of Real Time, Personal Annoyance Monitoring Devices  
Date: 1973  
Source: Community, Aircraft  
Place: U.S.A.: Los Angeles  
N=: 11  
Noise: Available (continuous)  
Report: Fidell, Jones and Pearsons, 1973  
Notes: The primary data consisted of time-coded ratings of individual noise events which respondents

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sent using a wrist-worn F.M. transmitter. A summary questionnaire was also used. Some subjects also described each noise event using a portable microphone. The participants produced data which were consistent with detailed analyses.

USA-095 U.S. Census Bureau Annual Housing Surveys

Date: 1976, 1977, 1979, 1981 1983  
 Source: Community, Aircraft  
 Place: U.S.A.: National sample and selected Standard Metropolitan Statistical Areas (SMSA)  
 N=: Approximately 70,000 national representative interviews per year and approximately 5,000 to 15,000 additional interviews in selected metropolitan areas.  
 Noise: Not available  
 Report: Annual Housing Survey, 1976-1983  
 Notes: This national survey included two noise questions in 1976, 1977, 1979, 1981, and 1983. The noise question wordings were not the same each year. The national sample interviews were repeated in the same housing units each year.

USA-096 1974 Fort Campbell Area Helicopter Noise Survey

Date: 1974  
 Source: Helicopters  
 Place: U.S.A.: Near Fort Campbell (Kentucky-Tennessee)  
 N=: 213  
 Noise: Predicted as a function of distance, helicopter type and flight frequency but not linked to survey responses in published analyses.  
 Report: Broderon and Edwards, 1976  
 Notes: The study evaluated proposed low-altitude flights for 2,500 square miles surrounding Fort Campbell.

USA-102 1974 U.S.A. 24-Site Community Noise Survey

Date: 1974 (Spring)  
 Source: Community noise (neighborhood as well as road traffic)  
 Place: U.S.A.: 24 sites in seven cities  
 N=: 2037  
 Noise: Available (continuous)  
 Report: Fidell, 1977; Fidell, 1978; Galloway, 1977; Simpson, Pearsons, Fidell and Muehlenbeck, 1974  
 Notes: Interviews were conducted by telephone for 1834 respondents and in person for 203 respondents. The data were included in a multisurvey, comparative analysis (Schultz, 1978).

USA-103 1974 Capital Beltway Survey

Date: 1974  
 Source: Freeway traffic  
 Place: U.S.A.: Suburb of Washington, D.C.  
 N=: 149  
 Noise: Not available  
 Report: Humphrey, Bradshaw and Krout, 1978  
 Notes: NONE

USA-104 1974 Boston Economic Impact Pretest

Date: 1974  
 Source: Road traffic  
 Place: U.S.A.: Boston Metropolitan Area  
 N=: 60  
 Noise: Not available  
 Report: Thorpe and Holmes, 1976  
 Notes: The questionnaire was tested for inclusion in a large study of the economic welfare effects of noise.

USA-105 1974 San Francisco Livable Streets Survey

Date: 1974 (June)  
 Source: Road traffic  
 Place: U.S.A.: San Francisco  
 N=: 450  
 Noise: Not available  
 Report: Appleyard, Gerson and Lintell, 1980

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- Notes: NONE
- USA-110 1975 J.F.K. Airport Noise Survey  
Date: 1975 (Autumn)  
Source: Aircraft  
Place: U.S.A.: John F. Kennedy Airport (New York)  
N=: 1294  
Noise: Not available  
Report: Borsky, 1977  
Notes: Interviews were conducted to support a laboratory study program.
- USA-117 1975 Boulder Noise Survey  
Date: 1975 (Summer)  
Source: Community  
Place: U.S.A.: Boulder (Colorado)  
N=: 184  
Noise: Available (The report does not examine the relationship between noise levels and reactions.)  
Report: Gourdin, 1975  
Notes: Motorcycles, road traffic and barking dogs were the most significant noise problems.
- USA-127 1976-77 Dulles Concorde Noise Study  
Date: 1976 (May, December), 1977 (May)  
Source: Aircraft  
Place: U.S.A.: Dulles International Airport (Washington, D.C.)  
N=: 5291 spread over three waves  
Noise: Not available (Four noise impacted areas were defined: high, medium, low, non-impacted)  
Report: Bremond, 1979a; Committee on Community Reactions to Concorde, 1977; Federal Aviation Administration, 1977; Kirschner Associates, 1976  
Notes: Telephone interviewing was conducted once before and twice after Concorde began operations.
- USA-128 1976 Orange County Airport Noise Survey  
Date: 1976  
Source: Aircraft
- Place: U.S.A.: Orange County (California)  
N=: 666  
Noise: Single analysis groups span as much as a 20 CNEL range.  
Report: POS Associates, 1976  
Notes: The 1976 study was prepared for the Orange County Board of Supervisors. Some of the questionnaire was used in a later 1977 survey (USA-145).
- USA-129 Albany and Louisville Aircraft Fear Study  
Date: 1975 (Louisville, November, December), 1976 (Albany: June, July)  
Source: Aircraft  
Place: U.S.A.: Albany (New York) and Louisville (Kentucky)  
N=: 200  
Noise: Available (approximate)  
Report: Loeb and Moran, 1977; Moran, Gunn and Loeb, 1981  
Notes: Respondents were interviewed after aircraft crashes in sites near and distant from the crashes in Albany (51 months after crash) and Louisville (six months after crash). Respondents near crashes were more fearful and more annoyed.
- USA-143 1977-78 Three-Phase J.F.K. Concorde Noise Study  
Date: 1977 (October, November), 1978 (May, June), 1978 (August, September)  
Source: Aircraft  
Place: U.S.A.: John F. Kennedy Airport (New York)  
N=: 5404 interviews from approximately 2400 people  
Noise: Available (three 5-dB zones)  
Report: Borsky, 1978  
Notes: Respondents were less annoyed during the one winter interview than during the two summer interviews. "No substantial differences" were found between

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those reinterviewed and 400 new respondents.

The major noise problems were in the first two rows of houses.

USA-144 1977-78 F.A.A. J.F.K. Concorde Noise Study

Date: 1977 (January to April) 1978  
(January, February)  
Source: Aircraft  
Place: U.S.A.: John F. Kennedy Airport  
(New York)  
N=: 2020  
Noise: Available (continuous)  
Report: Federal Aviation Administration,  
1979  
Notes: Telephone interviews were  
conducted nine months before and  
three months after Concorde began  
operations. People disapproved of  
the decision to admit Concorde  
more before than after operations  
began.

USA-145 1977 Orange County Airport Noise Study

Date: 1977 (January)  
Source: Aircraft  
Place: U.S.A.: Orange County California  
N=: 400  
Noise: Available (5-dB steps) for 200  
respondents  
Report: Opinion Research of California,  
1977  
Notes: The study was prepared for the  
City of Newport Beach. Some of  
the interview was designed to be  
compared to a 1976 study (USA-  
128).

USA-154 1977 Youngmann Highway Noise Abatement Study

Date: 1977 (August)  
Source: Expressway traffic  
Place: U.S.A.: Interstate Highway (I-290)  
in Amherst (Buffalo), New York  
N=: 160  
Noise: Available (continuous)  
Report: McColl, 1979  
Notes: Interviews were conducted before  
construction of a noise barrier.

USA-155 1977 Minnesota Five-Site Freeway Noise Barrier Study

Date: 1977-1978  
Source: Freeway traffic  
Place: U.S.A.: 19 study areas in the  
Minneapolis-St. Paul vicinity  
N=: 756 questionnaires in the follow  
up survey, a smaller number in  
the original survey  
Noise: Not available  
Report: Minneapolis-St. Paul..., 1980;  
Orlich, 1979  
Notes: Respondents complete a mail  
questionnaire both before and  
after barrier installation in four  
areas and only after installation  
in 15 areas. The barriers were  
generally evaluated positively.

USA-156 1977 Ohio New Highway Survey

Date: 1977 (three months before January  
1978 opening), 1978 (June),  
1979(June)  
Source: Road traffic  
Place: U.S.A.: Ohio (a two-mile section  
along a new motorway)  
N=: 483 interviews (113 people  
interviewed three times), 163  
before opening, 163 for first  
follow-up and 160 for second  
follow-up  
Noise: Available (For surveys after the  
highway opened)  
Report: Weinstein, 1980; Weinstein, 1982  
Notes: Residents were interviewed 3  
months before and 4 months and  
16 months after a new highway  
opened. Residents did not adapt  
between the 4 month and 16  
month interviews. A separate  
study of public protest and home  
modifications was made at the last  
interview, but no references for  
this study are in the publications.

USA-166 1978 Salt Lake Airport Noise Study

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Date: 1978 (May)  
Source: Aircraft  
Place: U.S.A.: Salt Lake City (4 areas)  
N=: 353  
Noise: Available (5 dB steps)  
Report: Systems Control, 1978  
Notes: Interviews were conducted by telephone. This was an Aircraft Noise Control and Land Use Compatibility study.

USA-167 U.S.A. Helicopter Survey of Selected Occupations

Date: 1978 (November), 1979 (February)  
Source: Helicopters  
Place: U.S.A.  
N=: 272  
Noise: Not available  
Report: Edwards, Broderson, Barbour, McCoy and Johnson, 1979; Edwards, Broderson and Johnson, 1980  
Notes: Mail questionnaires were sent to wildlife refuge managers, forest service employees, postmasters, and national park superintendents. Information about their perceptions of other people's responses was also sought. Respondents reported about reactions generally and thus may have included work locations.

USA-170 1978 U.S. Army Impulse Noise Survey

Date: 1978 (July to September)  
Source: Artillery, Helicopters  
Place: U.S.A.: Vicinity of Ft. Bragg  
N=: 2147  
Noise: Available for some noise sources  
Report: Schomer, 1979; Schomer, 1981a; Schomer, 1981b; Schomer, 1982; Schomer, 1983a  
Notes: NONE

USA-171 1978 Spokane Community Noise Survey

Date: 1978 (Summer)  
Source: Community  
Place: U.S.A.: Spokane County

N=: 761  
Noise: Not available  
Report: Perdue, 1979; Perdue and Coates, 1979  
Notes: The study is based on a probability sample. The survey showed support for a community noise control program. The interview was adapted from the questionnaire developed for the U.S. Environmental Protection Agency.

USA-172 1978 Kentucky Urban Noise Survey

Date: 1978  
Source: Community  
Place: U.S.A.: Kentucky (20 sites)  
N=: 845  
Noise: Not available (Measurements made in the cities but data are not available for individual respondents.)  
Report: Broderson, Edwards and Hauser, 1979; Broderson, Edwards, McCoy and Coakley, 1981  
Notes: Self-administered questionnaires were used. Surface transportation was the most annoying noise source.

USA-179 1979 Oklahoma City Airport Noise Survey

Date: 1979 (February)  
Source: Aircraft  
Place: U.S.A.: Seven areas near Will Rogers World Airport (Oklahoma City)  
N=: 406  
Noise: Available for some areas in 10-15 dB steps  
Report: Systems Control, 1979  
Notes: Interviews were conducted by telephone. This was an Airport Noise Control and Land Use Compatibility study.

USA-183 1979 Salt Lake City Community Noise Survey

Date: 1979 (July, August)

CATALOG (Continued)

- Source: Community  
 Place: U.S.A.: Probability sample of Salt Lake City  
 N=: 451  
 Noise: Not available  
 Report: Fricks, 1980  
 Notes: The interview was adapted from the questionnaire developed for the U.S. Environmental Protection Agency.
- USA-186 1980 Bradley International Airport Noise Survey  
 Date: 1980 (February)  
 Source: Aircraft  
 Place: U.S.A.: Connecticut around Bradley Airport  
 N=: 343  
 Noise: Available (3 noise zones)  
 Report: CH2M Hill, 1980  
 Notes: Randomly selected respondents were interviewed by telephone. This was an Aircraft Noise Control and Land Use Compatibility study.
- USA-191 1979 Philadelphia Aircraft Noise Survey  
 Date: 1979 (November, December)  
 Source: Aircraft, Community  
 Place: U.S.A.: Philadelphia International Airport  
 N=: 1723  
 Noise: Not available for analyses of responses  
 Report: Effects of Airport Noise..., 1980  
 Notes: Telephone interviews were conducted.
- USA-202 1978-79 Time-of-Day Study with Personal Annoyance Recording Device  
 Date: 1978  
 Source: Aircraft  
 Place: U.S.A.: Burbank (California), Atlanta (Georgia)  
 N=: 46  
 Noise: Available (continuous)  
 Report: Horonjeff and Teffeteller, 1980  
 Notes: Respondents were asked to push a personal, portable counter each time they were bothered by aircraft noise as they went about their normal daily activities. They were also asked to report counter totals on a postcard four times a day. Brief pre-study and post-study questionnaires were also completed.
- USA-203 1979 Burbank Aircraft Noise Change Study  
 Date: 1979 (August) to 1980 (December)  
 Source: Aircraft  
 Place: U.S.A.: Four areas around an airport in Burbank, California  
 N=: 5041 interviews from more than 1000 people  
 Noise: Available (continuous)  
 Report: Fidell, Horonjeff, Teffeteller and Pearsons, 1981; Fidell, Horonjeff, Mills, Baldwin, Teffeteller and Pearsons, 1985; Fidell and Pearsons, 1985a; Fidell and Pearsons, 1985b; Raw and Griffiths, 1985; Griffiths and Raw, 1985a; Griffiths and Raw, 1985b  
 Notes: Interviews were carried out in four neighborhoods at five times: once before closing one runway for repairs, three times during the period the runway was closed, and once after the runway was reopened. Both telephone and personal interviews were used.
- USA-204 1981 John Wayne Airport Operation Change Study  
 Date: 1981 (September to November)  
 Source: Aircraft  
 Place: U.S.A.: John Wayne Airport at Santa Ana, California  
 N=: 3105 interviews from more than 800 people  
 Noise: Available (continuous)  
 Report: Fidell, Horonjeff, Mills, Baldwin, Teffeteller and Pearsons, 1985; Fidell, Mills, Teffeteller and Pearsons, 1982  
 Notes: Four rounds of telephone interviews were conducted. The

CATALOG (Continued)

second, third and fourth rounds were each conducted after the introduction of new flight departure procedures. Most respondents were interviewed for only one round. Neither exposure nor annoyance changed appreciably during the study.

USA-205 1980 Bellevue Airport Noise Study

Date: 1980 (May)  
 Source: Aircraft  
 Place: U.S.A.: Bellevue, Washington Airport  
 N=: 27  
 Noise: Not available  
 Report: Mabry, 1982  
 Notes: Telephone interviews were conducted. This small survey was part of a larger study of general aviation noise at four airports. The larger study primarily focused on complaint data.

USA-206 1981 Alabama Three-Site Blast Noise Survey

Date: 1981 (February)  
 Source: Blasting in two surface coal mines and one quarry  
 Place: U.S.A.: Communities around 3 blasting sites in Alabama  
 N=: 1042  
 Noise: Available (vibration data also collected)  
 Report: Bullen and Job, 1985; Fidell and Horonjeff, 1982; Fidell and Horonjeff, 1985; Fidell, Horonjeff, Schultz and Teffeteller, 1982; Fidell, Horonjeff, Schultz and Teffeteller, 1983; Kessler, 1985  
 Notes: Interviews were conducted either face-to-face or by telephone. Annoyance was related to ground vibration levels. An unsuccessful attempt was made to measure annoyance with individual blasts using postcards.

USA-207 1980 John Wayne Airport (Orange County) Survey

Date: 1980 (March)  
 Source: Aircraft  
 Place: U.S.A.: Communities around John Wayne (Orange County) Airport  
 N=: 310  
 Noise: Available (classified as above or below 65 CNEL contour)  
 Report: VTN Consolidated, 1980  
 Notes: Both telephone (240) and face-to-face interviews (71) were conducted with a random sample of residents. This was an Aircraft Noise Control and Land Use Compatibility study.

USA-212 1972 Minneapolis St. Paul Airport Development Survey

Date: 1972 (July)  
 Source: Aircraft  
 Place: U.S.A.: Minneapolis-St. Paul Airport  
 N=: 400  
 Noise: Two noise levels are defined: "high impact noise area" and "other"  
 Report: Mid-Continent Surveys, 1972  
 Notes: Though there were some questions on noise, the main subject of the survey was attitudes towards airport development.

USA-213 1973 Chicago Construction Site Survey

Date: 1973 (June, July)  
 Source: Construction  
 Place: U.S.A.: 14 construction sites in the Chicago area  
 N=: 128  
 Noise: Available (continuous)  
 Report: Newman, 1973  
 Notes: NONE

USA-215 1974 Los Angeles International Aircraft Noise Survey

Date: 1974 (Winter and Spring)  
 Source: Aircraft  
 Place: U.S.A.: Los Angeles International Airport  
 N=: 164  
 Noise: Available (continuous)

CATALOG (Continued)

- Report: Gabriel, Langdon, Creamer, and Kushner, 1981  
Notes: NONE
- USA-216 1979 Electrical Power Line and Transformer Noise Survey  
Date: 1978 (Spring)  
Source: Electrical transformers and transmission lines  
Place: U.S.A.: 17 sites in Southern California  
N=: 133  
Noise: Available (continuous)  
Report: Fidell, Tefeteller and Pearsons, 1979  
Notes: Transmission line noise is less acceptable than transformer noise of the same level.
- USA-217 1980 Aircraft Rating Diary (Pilot) Study  
Date: 1980 (August to October)  
Source: Aircraft  
Place: U.S.A.: Torrance Municipal Airport (California)  
N=: 18 subjects provided over 920 aircraft noise ratings  
Noise: Available (continuous)  
Report: Stearns, Brown and Neiswander, 1983  
Notes: A face-to-face interview was used to recruit residents. The study evaluated a method for rating individual aircraft noise events. Respondents kept a diary for five days by noting some information about every aircraft noise event which bothered them when they were at home. Both indoor and outdoor noise measurements were made.
- USA-219 1980 Salt Lake City In-Home Aircraft Rating Study  
Date: 1980 (Nov.)  
Source: Aircraft  
Place: U.S.A.: Salt Lake City Airport  
N=: 100 people provided 1164 ratings of individual aircraft flyovers
- Noise: Levels of the rated individual events are available  
Report: Dempsey, Stephens, Fields and Shepherd, 1983  
Notes: A self-completion questionnaire on the long term noise environment was completed by respondents. The purpose of the study was to rate individual aircraft flyovers which occurred during the one-hour rating sessions.
- USA-221 1977 Allentown Community Noise Survey  
Date: 1977  
Source: Community  
Place: U.S.A.: Allentown (Pennsylvania)  
N=: 467  
Noise: Not available  
Report: Levine, 1981  
Notes: The study was used to develop community noise study procedures for the U.S. Environmental Protection Agency. A final report on the study's findings was not published.
- USA-235 Controlled Exposure Helicopter Noise Study  
Date: 1983 (August to November)  
Source: Military helicopters  
Place: U.S.A.: Newport News (Virginia)  
N=: 338 people provided a total of 6345 interviews  
Noise: Available (continuous) for 17 controlled noise exposure days  
Report: Fields and Powell, 1985; Fields and Powell, 1987; Powell and Fields, 1984  
Notes: The initial face-to-face interview was conducted with 338 respondents. These respondents were reinterviewed with a short interview on daily noise reactions on up to 22 additional days. The helicopter noise exposure was controlled and measured on 17 of the 22 followup study days.

CATALOG (Continued)

USA-245 1970's LAX Six-Community Noise Survey

Date: 1972 (August)  
 Source: Aircraft  
 Place: U.S.A.: Los Angeles International Airport (Inglewood, El Segundo, Westchester, Emerson Manor, West Westchester, Lennox)  
 N=: 239  
 Noise: Available  
 Report: Clary, 1974; Goodman and Clary, 1976  
 Notes: This telephone survey examines factors which explain political activism with respect to noise.

USA-250 1982 Decatur General Aviation Airport Survey

Date: 1982 (March)  
 Source: Aircraft  
 Place: U.S.A.: Decatur (Illinois)  
 N=: 234  
 Noise: Available (in 4 noise zones)  
 Report: Schomer, 1983b  
 Notes: Interviews were obtained with both telephone and face-to-face techniques.

USA-251 Two-Neighborhood San Francisco Airport Survey

Date: 1974 Publication (Survey date not reported)  
 Source: Aircraft  
 Place: U.S.A.: Foster City and Fremont (San Francisco area)  
 N=: 552  
 Noise: Available (continuous)  
 Report: Graeven, 1974  
 Notes: Self-administered questionnaires were personally distributed to female residents. Numbers of reported health problems are related to aircraft noise annoyance but only weakly, if at all, to aircraft noise levels.

USA-299 1966 Edwards Air Force Base Resident Sonic Boom Survey

Date: 1966 (July)  
 Source: Sonic booms from military aircraft

Place: U.S.A.: Edwards Air Force Base, California  
 N=: 783  
 Noise: Available  
 Report: Kryter, Johnson and Young, 1968  
 Notes: On-base residents returned a mail questionnaire to rate sonic booms and other noise environments for June (approximately 10 booms per day, 1.7 p.s.f. median nominal peak overpressure) and for prior months. Some 26% reported that the June sonic boom environment was unacceptable.

USA-300 1975 Rutgers Freshmen Dormitory Noise Sensitivity Study

Date: 1975 (August), 1976 (April)  
 Source: Noise inside college dormitory  
 Place: U.S.A.: New Jersey (A dormitory at Rutgers State University)  
 N=: 155 (55 participated in full study)  
 Noise: Not available  
 Report: Weinstein, 1978  
 Notes: A mail questionnaire on noise sensitivity was returned by 155 freshmen before entering school. Later in the school year 24 high-sensitive and 31 low-sensitive students in one dormitory rated their disturbance from noise in the dormitory. Disturbance increased for the sensitive but remained the same for the low-sensitive students.

USA-301 1982 Westchester Airport Nighttime Noise Change Study

Date: 1982 (May 1-3, "before" round; June 26-28, "after" round)  
 Source: Aircraft  
 Place: U.S.A.: Four areas around Westchester Country Airport (New York)  
 N=: 1465 (725, "before" round; 740, "after" round)  
 Noise: Available (continuous)  
 Report: Baldwin and Fidell, 1982; Fidell et al., 1985

CATALOG (Continued)

Notes: Telephone interviews were conducted before and about seven weeks after nighttime flight restrictions were changed. There was no unusual observed change in nighttime flights and, correspondingly, no observed change in noise reactions.

Place: U.S.S.R.: 22 Settlements around 9 airports  
 N=: Over 2000  
 Noise: Reactions not related to noise level  
 Report: Karagodina, Soldatkina, Vinokur, and Klimukhin, 1969  
 Notes: Disturbance with aircraft noise is related to distance from airports.

USA-308 1979 Salt Lake City Stationary Noise Source Survey

Date: 1979 (June, July)  
 Source: Stationery neighborhood noises (dogs, sirens, people)  
 Place: U.S.A: Salt Lake City  
 N=: 63  
 Noise: Not available  
 Report: Alvord, 1988  
 Notes: Residents were interviewed who had indicated in a 1979 survey (USA-183) that they were most annoyed by a common neighborhood noise such as dogs, sirens, garbage trucks, or people. The most annoying aspects of these sounds were reported to be loudness, time and frequency of occurrence and quality of sound.

YUG-141 Two-Area Belgrade Aircraft Noise Study

Date: 1976 Publication (Survey date not reported)  
 Source: Aircraft  
 Place: Yugoslavia: Two settlements near Belgrade airport  
 N=: (Not known)  
 Noise: Available  
 Report: Pravica, 1976  
 Notes: The method of administering the questionnaire to residents is not known. An abbreviated version of the Cornell Medical Index showed more neurosis near the airport.

USA-310 1972 Los Angeles Airport Relocated Residents Survey

Date: 1972 (September, October)  
 Source: Aircraft  
 Place: U.S.A.: Los Angeles  
 N=: 50  
 Noise: Available  
 Report: Clary, 1974; Goodman and Clary, 1976  
 Notes: Telephone interviews were conducted with people whose homes had been purchased by the airport. Some had moved away from the airport area and others remained in their homes.

YUG-234 1981 Split, Yugoslavia Airport Survey

Date: 1981 (April)  
 Source: Aircraft  
 Place: Yugoslavia: Split Airport  
 N=: 252  
 Noise: Available (continuous)  
 Report: Institut..., 1981; Zoric, Lukic and Gvozdenovic, 1982; Zoric and Miroslav, 1981  
 Notes: NONE

USR-042 USSR 22-Settlement Aircraft Noise Survey

Date: 1969 Publication (Survey date not reported)  
 Source: Aircraft

## NOISE SOURCE INDEX

In this index each survey is listed under each of the primary noise sources studied in the survey. The noise source classification is based on the extent of information available about both the noise reactions and the noise environment for the particular source. As a result, a survey is listed under only a single noise heading when the standard survey approach is followed of focusing many questions on only a single noise source while including a single short question about each other possible noise source. If several noise sources are studied in detail, there are several entries for the survey in this index.

The index is ordered alphabetically by noise source and, within noise source, by country and survey identification number. The ten noise sources are Aircraft, Community, Construction, Impulse, Industry, Interior (primarily noise from attached dwelling units), Railway (including all tracked transit systems), Road Traffic, Sonic Boom, and Miscellaneous. The survey identification number precedes each survey's title.

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### □ Aircraft Noise

#### ○ AUSTRALIA

- AUL-036 1969 Sydney Airport Noise Survey
- AUL-210 1980 Australian Five-Airport Survey
- AUL-211 1979 Sydney Airport Study of Type of Noise Reactions
- AUL-244 1979 Sydney Airport Pilot Study
- AUL-307 198? Sydney Aircraft/Road traffic survey

#### ○ BELGIUM

- BEL-151 1977-78 Belgium Four-Airport Noise Survey
- BEL-288 1980's Brussels International Airport Noise Survey

#### ○ CANADA

- CAN-055 1971 Dorval Aircraft Noise Survey
- CAN-078 1972 Calgary Noise Survey
- CAN-168 1978 Canadian Four-Airport Survey
- CAN-174 1978 Canadian National Community Noise Survey (National Household Survey of Noise Exposure)
- CAN-181 1979 Canadian Three-Airport General Aviation Study
- CAN-236 1981 Southern Ontario Community Survey

#### ○ FRANCE

- FRA-016 1965 French Four-Airport Noise Study
- FRA-017 1965 French Regional Sonic Boom Survey
- FRA-045 1970 French Sonic Boom Survey
- FRA-056 1971 Orly Aircraft Noise Survey
- FRA-087 1973 St. Cyr L'Ecole General Aviation Noise Survey
- FRA-098 1974-75 Roissy Airport Before-After Opening Noise Survey
- FRA-099 1974 French National Aircraft Noise Survey
- FRA-113 1975 Orly Airport Noise Study
- FRA-131 1976 Orly Medical Effects Pilot Study
- FRA-146 1977 French Light Aircraft Study
- FRA-150 1977 Roissy Airport Survey
- FRA-189 1971 French Concorde Sonic Boom Study
- FRA-218 1975 Strasbourg Airport Noise Survey
- FRA-239 1984-1986 French Combined Aircraft/Road Traffic Survey

#### ○ GERMANY

- GER-034 1969 Munich Airport Noise (DFG Aircraft Noise Study)
- GER-037 1969 Meppen Sonic Boom Field Experiment
- GER-114 1975 German General Aviation Survey
- GER-134 1976 Hamburg Urban Noise Survey

#### ○ HONG KONG

- HKG-125 1975 Hong Kong Fireman Environmental Noise Survey
- HKG-208 Preliminary Hong Kong Fireman Noise Survey

#### ○ JAPAN

- JPN-018 1965 Osaka Aircraft Noise Survey
- JPN-046 1970 Yokota Air Base Study
- JPN-062 1972 Akishima City Aircraft Noise Survey
- JPN-152 1977 Atugi Military Aircraft Noise Study
- JPN-163 1972 Itami City Osaka Airport Noise Study
- JPN-293 Osaka Aircraft and Environmental Noise Survey

#### ○ NETHERLANDS

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- NET-013 1963 Schiphol Airport Survey
- NET-115 1975 Schiphol and Marssum Aircraft Noise Insulation Survey
- NET-149 1977 Schiphol and Marssum Sound Insulation Survey
- NET-193 1976 Netherlands Military Airfields Noise Study
- NET-196 1978 Dutch Homes for the Aged Environmental Noise Study
- NET-240 1984 Schiphol Combined Aircraft/Road Traffic Survey
- NET-269 1986 Netherlands Low-Level Military Aircraft Study
- o NORWAY
  - NOR-311 1989 Oslo Airport Survey
- o POLAND
  - POL-198 1974 Warsaw Aircraft Noise Survey
- o SOUTH AFRICA
  - SAF-028 1968 South Africa Preliminary Aircraft Noise Survey
- o SWEDEN
  - SWE-011 1963 Linköping Airport Noise Study
  - SWE-035 Scandinavian Nine-Airport Noise Study
  - SWE-054 Trängslet Sonic Boom Study
  - SWE-108 Burgsvik Sonic Boom Study
  - SWE-222 Nausta Research Camp Sonic Boom Study
- o SWITZERLAND
  - SWI-053 1971 Swiss Three-City Noise Survey
  - SWI-180 1979 Swiss General Aviation Survey
- o TURKEY
  - TRK-283 1980-1984 Istanbul Noise Survey
- o UNITED KINGDOM
  - UKD-008 1961 Heathrow Aircraft Noise Survey (First Heathrow Survey)
  - UKD-024 1967 Heathrow Aircraft Noise Study (Second Heathrow Survey)
  - UKD-033 1969 Mixed Road and Aircraft Noise Survey
  - UKD-052 1971 Gatwick Airport Noise Survey
  - UKD-061 1972 Heathrow Airport Noise Pilot Survey
  - UKD-086 1973 Kew Aircraft Noise Survey
  - UKD-097 1974 English Aircraft Noise Postal Survey
  - UKD-111 1975-76 English Mental Health Pilot Survey
  - UKD-112 Luton In-migrants Aircraft Noise Survey
  - UKD-130 1976 Heathrow Concorde Noise Survey
  - UKD-147 1977 Heathrow Nighttime Pilot Survey
  - UKD-148 1977 West London (Heathrow) Psychiatric Morbidity Survey
  - UKD-182 1979 Heathrow and Gatwick Sleep Study (Aircraft Noise and Sleep Disturbance)
  - UKD-224 1982 Manchester Night Noise Survey
  - UKD-225 1982 British Helicopter Disturbance Study
  - UKD-238 1984 Glasgow Combined Aircraft/Road Traffic Survey
  - UKD-241 1982 Heathrow Combined Aircraft/Road Traffic Survey
  - UKD-242 1982 United Kingdom Aircraft Noise Index Study (ANIS study)
  - UKD-243 1981 United Kingdom General Aviation Airport Survey
  - UKD-305 1980-83 Noise Sensitivity Follow-up Survey
  - UKD-309 1977 Hamble Airfield Survey
- o UNITED STATES OF AMERICA
  - USA-004 1953 U.S.A. Eight-Airport Noise Survey
  - USA-006 1957 U.S.A. Air Force Base Noise Survey

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USA-007 1961 St. Louis Sonic Boom Study  
USA-012 1964 Oklahoma City Sonic Boom Study  
USA-022 1967 U.S.A. Four-Airport Survey (Phase I of Tracor Survey)  
USA-023 1967-68 SR-71 Supersonic Aircraft Noise Study  
USA-027 1968 LAX Aircraft Noise Study  
USA-031 1969 LAX Aircraft Noise Study  
USA-032 1969 U.S.A. Three-Airport Survey (Phase II Tracor Survey)  
USA-044 1970 U.S.A. Small City Airports (Small City Tracor survey)  
USA-048 1970 C.R.P. Inglewood Community Noise Survey  
USA-051 1971 J.F.K. Dynamic Preferential Runway System Survey  
USA-059 1972 J.F.K. Airport Noise Survey  
USA-060 1972 Portland Northshore Aircraft Survey  
USA-082 1973 Los Angeles Airport Night Study  
USA-083 1973 LAX Airport Noise Study  
USA-084 1973 J.F.K. Airport Noise Study  
USA-085 1973 Seattle-Tacoma Airport Noise Study  
USA-090 1973 E.P.A. Community Noise Questionnaire Pilot Study  
USA-091 1973 Test of Real Time, Personal Annoyance Monitoring Devices  
USA-095 U.S. Census Bureau Annual Housing Surveys  
USA-096 1974 Fort Campbell Area Helicopter Noise Survey  
USA-110 1975 J.F.K. Airport Noise Survey  
USA-127 1976-77 Dulles Concorde Noise Study  
USA-128 1976 Orange County Airport Noise Survey  
USA-129 Albany and Louisville Aircraft Fear Study  
USA-143 1977-78 Three-Phase J.F.K. Concorde Noise Study  
USA-144 1977-78 F.A.A. J.F.K. Concorde Noise Study  
USA-145 1977 Orange County Airport Noise Study  
USA-166 1978 Salt Lake Airport Noise Study  
USA-167 U.S.A. Helicopter Survey of Selected Occupations  
USA-170 1978 U.S. Army Impulse Noise Survey  
USA-179 1979 Oklahoma City Airport Noise Survey  
USA-186 1980 Bradley International Airport Noise Survey  
USA-191 1979 Philadelphia Aircraft Noise Survey  
USA-202 1978-79 Time-of-Day Study with Personal Annoyance Recording  
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USA-203 1979 Burbank Aircraft Noise Change Study  
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USA-310 1972 Los Angeles Airport Relocated Residents Survey

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    USR-042 USSR 22-Settlement Aircraft Noise Survey
- o YUGOSLAVIA  
    YUG-141 Two-Area Belgrade Aircraft Noise Study  
    YUG-234 1981 Split, Yugoslavia Airport Survey

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- o FRANCE  
    FRA-017 1965 French Regional Sonic Boom Survey  
    FRA-045 1970 French Sonic Boom Survey  
    FRA-189 1971 French Concorde Sonic Boom Study
- o GERMANY  
    GER-037 1969 Meppen Sonic Boom Field Experiment
- o SWEDEN  
    SWE-054 Trängslet Sonic Boom Study  
    SWE-108 Burgsvik Sonic Boom Study  
    SWE-222 Nausta Research Camp Sonic Boom Study
- o UNITED KINGDOM  
    UKD-010 1963 Welsh Village Impulse Noise (Exercise Yellow Hammer)
- o UNITED STATES OF AMERICA  
    USA-007 1961 St. Louis Sonic Boom Study  
    USA-012 1964 Oklahoma City Sonic Boom Study  
    USA-023 1967-68 SR-71 Supersonic Aircraft Noise Study  
    USA-299 1966 Edwards Air Force Base Resident Sonic Boom Survey

### ▣ Community Noise

- o AUSTRALIA  
    AUL-214 1978 Leichhardt Municipality Complaint Comparison Survey  
    AUL-285 1986 Australian National Noise Survey  
    AUL-286 1986 Brisbane Noise Survey  
    AUL-287 1986 Toowoomba Community Noise Survey
- o CANADA  
    CAN-076 1972 London and Woodstock Community Noise Survey  
    CAN-077 1972 Edmonton Community Noise Survey  
    CAN-078 1972 Calgary Noise Survey  
    CAN-079 1972 Toronto Community Noise Survey  
    CAN-121 1975-76 Southern Ontario Community Survey  
    CAN-174 1978 Canadian National Community Noise Survey (National Household Survey of Noise Exposure)
- o FRANCE  
    FRA-289 1986-87 French National Transportation Noise Survey
- o GERMANY  
    GER-275 1976-77 Darmstadt Movers Survey
- o JAPAN  
    JPN-138 1976 Kanagawa Ward Community Noise Survey  
    JPN-177 1978 Kanagawa Ward Community Noise Survey  
    JPN-293 Osaka Aircraft and Environmental Noise Survey  
    JPN-294 Nagoya City 1980's Cumulative Noise Survey
- o NETHERLANDS  
    NET-261 1977 Netherlands National Noise Survey

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- o PUERTO RICO
  - PUR-188 San Juan Community Noise Survey
- o SPAIN
  - SPA-302 1986 Valencia Five-Site Survey
- o SWITZERLAND
  - SWI-304 1986 Swiss Multi-storey Building Sound Insulation Study
- o UNITED KINGDOM
  - UKD-001 1943 British Home Noise Survey
  - UKD-132 1976 Darlington Quiet Town Survey
  - UKD-160 1977 Hampshire Village Noise Study
  - UKD-199 1978 Darlington Quiet Town Survey
  - UKD-296 1985 Great Britain Neighborhood Noise Survey
- o UNITED STATES OF AMERICA
  - USA-020 1966 U.S.A. Three-City Community Noise Study
  - USA-039 San Francisco Three-Street Pilot Study
  - USA-040 1969 Inglewood Community Noise Survey
  - USA-048 1970 C.R.P. Inglewood Community Noise Survey
  - USA-058 Philadelphia Community Noise Survey
  - USA-067 1972 Boulder Community Noise Survey
  - USA-068 1972 College Park Community Noise Survey
  - USA-081 Boulder Newspaper Community Noise Survey
  - USA-089 Portland-Multnomah Community Noise Survey
  - USA-090 1973 E.P.A. Community Noise Questionnaire Pilot Study
  - USA-091 1973 Test of Real Time, Personal Annoyance Monitoring Devices
  - USA-095 U.S. Census Bureau Annual Housing Surveys
  - USA-102 1974 U.S.A. 24-Site Community Noise Survey
  - USA-117 1975 Boulder Noise Survey
  - USA-171 1978 Spokane Community Noise Survey
  - USA-172 1978 Kentucky Urban Noise Survey
  - USA-183 1979 Salt Lake City Community Noise Survey
  - USA-191 1979 Philadelphia Aircraft Noise Survey
  - USA-221 1977 Allentown Community Noise Survey
  - USA-308 1979 Salt Lake City Stationary Noise Source Survey
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  - o GERMANY
    - GER-134 1976 Hamburg Urban Noise Survey
  - o JAPAN
    - JPN-271 Japan Three-Site Construction Noise Survey
  - o UNITED KINGDOM
    - UKD-074 1972 London Construction Site Survey
  - o UNITED STATES OF AMERICA
    - USA-213 1973 Chicago Construction Site Survey
- ▣ Impulse Noise
  - o AUSTRALIA
    - AUL-209 1979 Hornsby Rifle Range Survey
  - o CANADA
    - CAN-136 1976 Canada Impulse Noise Survey
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  - GER-278 1980 German Shooting Range Survey
  - GER-290 1981 German Military Training Area Survey
- o IRELAND
  - IRE-254 1982-83 CEC Impulse Noise Field Study (Irish Survey)
- o JAPAN
  - JPN-140 1977 Camp Fuji Noise Survey
- o NETHERLANDS
  - NET-255 1982-83 CEC Impulse Noise Field Study (Netherlands Survey)
  - NET-260 1980-1981 Netherlands Pile Driver Impulse Noise Survey
- o SWEDEN
  - SWE-015 1964-1970 Karlstad Artillery Range Noise Study
  - SWE-185 1975 Gothenburg Rifle Range Survey
- o UNITED KINGDOM
  - UKD-010 1963 Welsh Village Impulse Noise (Exercise Yellow Hammer)
- o UNITED STATES OF AMERICA
  - USA-170 1978 U.S. Army Impulse Noise Survey
  - USA-206 1981 Alabama Three-Site Blast Noise Survey

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- o CANADA
  - CAN-136 1976 Canada Impulse Noise Survey
  - CAN-169 1978-79 Canadian Five Railway Yard Survey
- o GERMANY
  - GER-134 1976 Hamburg Urban Noise Survey
  - GER-231 Blast Furnace and Road Noise Study
- o JAPAN
  - JPN-005 1953 Osaka and Amagasaki Industrial Noise Survey
- o NETHERLANDS
  - NET-196 1978 Dutch Homes for the Aged Environmental Noise Study
  - NET-232 1980 Netherlands Industrial Noise Survey
  - NET-257 1979 Netherlands Industrial Noise Pilot Survey
  - NET-259 1977 Netherlands Industrial Noise Pilot Survey
  - NET-260 1980-1981 Netherlands Pile Driver Impulse Noise Survey
- o UNITED STATES OF AMERICA
  - USA-049 Cedar Rock Drive Neighborhood Noise Investigation

## o Interior Noise

- o CANADA
  - CAN-262 Canadian Party Wall Insulation Pilot Survey
- o NETHERLANDS
  - NET-002 1950 Netherlands Sound Insulation Effects Study
  - NET-263 1982-1983 Netherlands New Dwelling Survey
- o SWITZERLAND
  - SWI-304 1986 Swiss Multi-storey Building Sound Insulation Study
- o UNITED KINGDOM
  - UKD-001 1943 British Home Noise Survey
  - UKD-003 1952 Sound Insulation in Flats Survey

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- UKD-119 1975 Great Britain Interior Noise Survey
- UKD-220 1978 British Interior Noise Survey
- UKD-233 1980 British Flats' Sound Insulation Survey
- o UNITED STATES OF AMERICA
  - USA-300 1975 Rutgers Freshmen Dormitory Noise Sensitivity Study

### o Railway Noise

- o CANADA
  - CAN-078 1972 Calgary Noise Survey
  - CAN-126 Toronto Railway Noise Survey
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  - CAN-236 1981 Southern Ontario Community Survey
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  - GER-192 1977-1983 German Road/Railway Noise Comparison Study
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  - JPN-123 1975 Yokohama Road and Railway Noise Survey
  - JPN-139 1976 Japanese Road and Railway Noise Study
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  - NET-153 1977 Netherlands Railway Noise Survey
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  - NET-196 1978 Dutch Homes for the Aged Environmental Noise Study
  - NET-276 Netherlands Tram and Road Traffic Noise Survey
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  - SWE-228 1978-80 Swedish Railway Study
- o TURKEY
  - TRK-283 1980-1984 Istanbul Noise Survey
- o UNITED KINGDOM
  - UKD-029 1968 Coventry Pilot Railway Noise Survey
  - UKD-038 1969 Central England Railway Survey
  - UKD-116 1975 British National Railway Noise Survey
- o UNITED STATES OF AMERICA
  - USA-066 1972 BART Residential Impact Survey

### o Road Traffic Noise

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### o AUSTRALIA

- AUL-226 1974 Brisbane S-E Freeway Study
- AUL-227 1975-76 Australian Three-City Roadway Study
- AUL-264 1980 Brisbane Traffic Noise Reduction Survey
- AUL-265 1980 Brisbane Traffic Noise Increase Survey
- AUL-285 1986 Australian National Noise Survey
- AUL-307 198? Sydney Aircraft/Road traffic survey

### o AUSTRIA

- AUS-014 1964 Vienna Road Traffic Noise Survey
- AUS-093 1973 Vienna Road Traffic Noise Survey
- AUS-178 1977 Austrian Road Traffic Survey

### o BELGIUM

- BEL-107 Preliminary Leuven Traffic Noise Survey
- BEL-122 1975 Antwerp Traffic Noise Survey
- BEL-137 1976 Brussels Traffic Noise Survey

### o CANADA

- CAN-120 1975 Western Ontario University Traffic Noise Survey
- CAN-121 1975-76 Southern Ontario Community Survey
- CAN-236 1981 Southern Ontario Community Survey
- CAN-279 1976 Toronto Freeway 401 Privacy Fence Survey
- CAN-280 1978 Etobicoke and Ottawa Noise Barrier Study

### o CHINA

- CHI-230 1975 Beijing Traffic Noise Survey

### o CZECHOSLOVAKIA

- CZE-109 Bratislava Traffic Noise Survey

### o DENMARK

- DEN-075 1972 Copenhagen Traffic Noise Survey

### o FRANCE

- FRA-019 1965 Paris Expressway Noise Survey
- FRA-041 1969 Paris Road Traffic Noise Study
- FRA-092 1973 French Ten-City Traffic Noise Survey
- FRA-124 1975-76 l'Hay les Roses Barrier Survey
- FRA-197 1979 French Behavioral Effects of Road Noise Study
- FRA-239 1984-1986 French Combined Aircraft/Road Traffic Survey
- FRA-289 1986-87 French National Transportation Noise Survey

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- GER-134 1976 Hamburg Urban Noise Survey
- GER-135 1976 Stuttgart Railway and Road Noise Survey
- GER-164 Düsseldorf Traffic Noise Survey
- GER-192 1977-1983 German Road/Railway Noise Comparison Study
- GER-231 Blast Furnace and Road Noise Study
- GER-246 German Six-City Traffic Change Panel Study
- GER-256 Berlin Nighttime Noise Survey
- GER-278 1980 German Shooting Range Survey
- GER-281 1976-1977 German Highway Noise Study
- GER-282 1979 Wuppertal and Düsseldorf Traffic Noise Barriers Study
- GER-291 1984 German Part of Visual Context of Noise Survey

### o HONG KONG

- HKG-125 1975 Hong Kong Fireman Environmental Noise Survey
- HKG-187 Hong Kong Socio-Economic Area Road Traffic Survey

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- HKG-208 Preliminary Hong Kong Fireman Noise Survey
- o IRAQ
  - IRQ-229 1980 Baghdad Street Noise Survey
- o ITALY
  - ITL-318 1967 Ferrara Comparative Traffic Noise Study
- o JAPAN
  - JPN-094 1973-1974 Sendai Road Traffic Noise Survey
  - JPN-123 1975 Yokohama Road and Railway Noise Survey
  - JPN-139 1976 Japanese Road and Railway Noise Study
  - JPN-140 1977 Camp Fuji Noise Survey
  - JPN-190 1956 Kyoto Traffic Noise Survey
  - JPN-292 Sapporo City Traffic Noise and Vibration Survey
  - JPN-294 Nagoya City 1980's Cumulative Noise Survey
- o KOREA
  - KOR-295 1987 Seoul Traffic Noise Survey
- o NETHERLANDS
  - NET-106 1974 Dordrecht Home Sound Insulation Study
  - NET-196 1978 Dutch Homes for the Aged Environmental Noise Study
  - NET-240 1984 Schiphol Combined Aircraft/Road Traffic Survey
  - NET-258 1975 Amsterdam Home Sound Insulation Study
  - NET-276 Netherlands Tram and Road Traffic Noise Survey
- o SPAIN
  - SPA-272 1981 Valencia City-Wide Survey
  - SPA-273 1982 Valencia Five-Site Survey
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  - SPA-313 1984-85 Gandia Three-Site Traffic Noise Survey
  - SPA-314 1987-88 Gandia Beach Resort Traffic Noise Survey
  - SPA-315 1988 Pamplona Five-Site noise survey
  - SPA-316 1983 Valencia Traffic Noise Survey
  - SPA-317 1984 Gandia, City-wide Traffic Noise Survey
- o SWEDEN
  - SWE-021 1966-67 Stockholm and Gothenburg Traffic Study
  - SWE-025 1967 Stockholm Comparative Traffic Noise Study
  - SWE-026 1967 Huddinge New Motorway Study
  - SWE-100 Kungälv Noise Barrier Study
  - SWE-142 1976 Stockholm, Visby, Gothenburg Traffic Noise Study
  - SWE-165 1976 Gothenburg Tramway Noise Survey
  - SWE-223 Swedish Sleep Disturbance and Sound Insulation Study
  - SWE-303 1986 Gothenburg Sleep Disturbance Pilot Survey
- o SWITZERLAND
  - SWI-053 1971 Swiss Three-City Noise Survey
  - SWI-133 1976 Zurich Street Traffic Noise (Apartments) Survey
  - SWI-158 1977 Zurich Pilot Traffic Noise Survey
  - SWI-159 Swiss N-3 Motorway Study
  - SWI-173 1978 Zurich Time-of-Day Survey
  - SWI-312 1984 Swiss Part of Visual Context of Noise Survey
- o TURKEY
  - TRK-283 1980-1984 Istanbul Noise Survey
- o UNITED KINGDOM
  - UKD-009 1961 Central London Traffic Noise Survey

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UKD-072 1972 English Road Traffic Survey  
UKD-073 1972 Birmingham New Motorway Study  
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UKD-157 1977 London Area Panel Survey  
UKD-160 1977 Hampshire Village Noise Study  
UKD-162 Greater Manchester Traffic Survey  
UKD-176 1978 ISVR Lab/Field Comparison Survey  
UKD-237 1983-84 Southern England New Road Opening Survey  
UKD-238 1984 Glasgow Combined Aircraft/Road Traffic Survey  
UKD-241 1982 Heathrow Combined Aircraft/Road Traffic Survey  
UKD-266 1971-1972 Alton By-pass Study (Residents)  
UKD-267 Lake District A66 Traffic Change Study (Residents)  
UKD-268 TRRL Multiple-Site Road Traffic Flow Change Study  
(Residential)  
UKD-270 1983 English Road Traffic Vibration Survey  
UKD-277 TRRL Four-Road Laboratory/Field Comparison Study  
UKD-284 1983 English 11-Site Gypsy Traffic Noise Survey  
UKD-297 1985 Follow-up of 1983 New Road Opening Survey  
UKD-298 1985 Follow-up of TRRL Multiple-Site Traffic Flow Change  
Study

### o UNITED STATES OF AMERICA

USA-020 1966 U.S.A. Three-City Community Noise Study  
USA-043 Los Angeles Freeway Five-Site Study  
USA-047 1970 Minneapolis Freeway Noise Study  
USA-057 U.S.A. Vehicle Noise Situation Survey  
USA-069 1972 Minneapolis Freeway Noise Barrier Study  
USA-070 1972 Eastern U.S.A. Four-Community Highway Noise Survey  
USA-088 1973 U.S.C. Los Angeles Freeway Noise Study  
USA-102 1974 U.S.A. 24-Site Community Noise Survey  
USA-103 1974 Capital Beltway Survey  
USA-104 1974 Boston Economic Impact Pretest  
USA-105 1974 San Francisco Livable Streets Survey  
USA-154 1977 Youngmann Highway Noise Abatement Study  
USA-155 1977 Minnesota Five-Site Freeway Noise Barrier Study  
USA-156 1977 Ohio New Highway Survey

### o Miscellaneous Noise Sources

#### o AUSTRALIA

AUL-247 Victoria Australia Entertainment Center Study  
AUL-248 1983 Melbourne, Australia Simon and Garfunkel Concerts  
AUL-249 1983 Melbourne, Australia David Bowie Concert  
AUL-306 1988 New South Wales Power Station Survey

#### o GERMANY

GER-290 1981 German Military Training Area Survey

#### o UNITED KINGDOM

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- UKD-161 1977 Southampton Hovercraft Noise Survey**
- UKD-175 1978 Southampton Hovercraft Terminal Noise Survey**
- o UNITED STATES OF AMERICA**
  - USA-216 1979 Electrical Power Line and Transformer Noise Survey**

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#### ○ AIRCRAFT

- AUL-036 1969 Sydney Airport Noise Survey
- AUL-210 1980 Australian Five-Airport Survey
- AUL-211 1979 Sydney Airport Study of Type of Noise Reactions
- AUL-244 1979 Sydney Airport Pilot Study
- AUL-307 198? Sydney Aircraft/Road traffic survey

#### ○ COMMUNITY

- AUL-214 1978 Leichhardt Municipality Complaint Comparison Survey
- AUL-285 1986 Australian National Noise Survey
- AUL-286 1986 Brisbane Noise Survey
- AUL-287 1986 Toowoomba Community Noise Survey

#### ○ IMPULSE

- AUL-209 1979 Hornsby Rifle Range Survey

#### ○ ROAD TRAFFIC

- AUL-226 1974 Brisbane S-E Freeway Study
- AUL-227 1975-76 Australian Three-City Roadway Study
- AUL-264 1980 Brisbane Traffic Noise Reduction Survey
- AUL-265 1980 Brisbane Traffic Noise Increase Survey
- AUL-285 1986 Australian National Noise Survey
- AUL-307 198? Sydney Aircraft/Road traffic survey

#### ○ MISCELLANEOUS SOURCES

- AUL-247 Victoria Australia Entertainment Center Study
- AUL-248 1983 Melbourne, Australia Simon and Garfunkel Concerts
- AUL-249 1983 Melbourne, Australia David Bowie Concert
- AUL-306 1988 New South Wales Power Station Survey

### ▣ Austria

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- AUS-014 1964 Vienna Road Traffic Noise Survey
- AUS-093 1973 Vienna Road Traffic Noise Survey
- AUS-178 1977 Austrian Road Traffic Survey

### ▣ Belgium

#### ○ AIRCRAFT

- BEL-151 1977-78 Belgium Four-Airport Noise Survey
- BEL-288 1980's Brussels International Airport Noise Survey

#### ○ ROAD TRAFFIC

- BEL-107 Preliminary Leuven Traffic Noise Survey
- BEL-122 1975 Antwerp Traffic Noise Survey
- BEL-137 1976 Brussels Traffic Noise Survey

### ▣ Canada

#### ○ AIRCRAFT

- CAN-055 1971 Dorval Aircraft Noise Survey
- CAN-078 1972 Calgary Noise Survey
- CAN-168 1978 Canadian Four-Airport Survey



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- CAN-174 1978 Canadian National Community Noise Survey (National Household Survey of Noise Exposure)
- CAN-181 1979 Canadian Three-Airport General Aviation Study
- CAN-236 1981 Southern Ontario Community Survey
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    - CZE-109 Bratislava Traffic Noise Survey
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    - DEN-075 1972 Copenhagen Traffic Noise Survey
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- AIRCRAFT
  - FRA-016 1965 French Four-Airport Noise Study
  - FRA-017 1965 French Regional Sonic Boom Survey
  - FRA-045 1970 French Sonic Boom Survey
  - FRA-056 1971 Orly Aircraft Noise Survey
  - FRA-087 1973 St. Cyr L'Ecole General Aviation Noise Survey
  - FRA-098 1974-75 Roissy Airport Before-After Opening Noise Survey
  - FRA-099 1974 French National Aircraft Noise Survey
  - FRA-113 1975 Orly Airport Noise Study
  - FRA-131 1976 Orly Medical Effects Pilot Study
  - FRA-146 1977 French Light Aircraft Study
  - FRA-150 1977 Roissy Airport Survey
  - FRA-189 1971 French Concorde Sonic Boom Study
  - FRA-218 1975 Strasbourg Airport Noise Survey
  - FRA-239 1984-1986 French Combined Aircraft/Road Traffic Survey
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  - FRA-019 1965 Paris Expressway Noise Survey
  - FRA-041 1969 Paris Road Traffic Noise Study
  - FRA-092 1973 French Ten-City Traffic Noise Survey
  - FRA-124 1975-76 l'Hay les Roses Barrier Survey
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  - FRA-239 1984-1986 French Combined Aircraft/Road Traffic Survey
  - FRA-289 1986-87 French National Transportation Noise Survey
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    - GER-034 1969 Munich Airport Noise (DFG Aircraft Noise Study)
    - GER-037 1969 Meppen Sonic Boom Field Experiment
    - GER-114 1975 German General Aviation Survey
    - GER-134 1976 Hamburg Urban Noise Survey
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- GER-134 1976 Hamburg Urban Noise Survey
- GER-231 Blast Furnace and Road Noise Study

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- GER-134 1976 Hamburg Urban Noise Survey
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- GER-192 1977-1983 German Road/Railway Noise Comparison Study

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- GER-134 1976 Hamburg Urban Noise Survey
- GER-135 1976 Stuttgart Railway and Road Noise Survey
- GER-164 Düsseldorf Traffic Noise Survey
- GER-192 1977-1983 German Road/Railway Noise Comparison Study
- GER-231 Blast Furnace and Road Noise Study
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- GER-278 1980 German Shooting Range Survey
- GER-281 1976-1977 German Highway Noise Study
- GER-282 1979 Wuppertal and Düsseldorf Traffic Noise Barriers Study
- GER-291 1984 German Part of Visual Context of Noise Survey

### o MISCELLANEOUS SOURCES

- GER-290 1981 German Military Training Area Survey

## o Hong Kong

### o AIRCRAFT

- HKG-125 1975 Hong Kong Fireman Environmental Noise Survey
- HKG-208 Preliminary Hong Kong Fireman Noise Survey

### o ROAD TRAFFIC

- HKG-125 1975 Hong Kong Fireman Environmental Noise Survey
- HKG-187 Hong Kong Socio-Economic Area Road Traffic Survey
- HKG-208 Preliminary Hong Kong Fireman Noise Survey

## o Ireland

### o IMPULSE

- IRE-254 1982-83 CEC Impulse Noise Field Study (Irish Survey)

## o Iraq

### o ROAD TRAFFIC

- IRQ-229 1980 Baghdad Street Noise Survey

## o Italy

### o ROAD TRAFFIC

- ITL-318 1967 Ferrara Comparative Traffic Noise Study

## o Japan

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- JPN-018 1965 Osaka Aircraft Noise Survey
- JPN-046 1970 Yokota Air Base Study
- JPN-062 1972 Akishima City Aircraft Noise Survey
- JPN-152 1977 Atugi Military Aircraft Noise Study
- JPN-163 1972 Itami City Osaka Airport Noise Study

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- JPN-293 Osaka Aircraft and Environmental Noise Survey
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  - JPN-138 1976 Kanagawa Ward Community Noise Survey
  - JPN-177 1978 Kanagawa Ward Community Noise Survey
  - JPN-293 Osaka Aircraft and Environmental Noise Survey
  - JPN-294 Nagoya City 1980's Cumulative Noise Survey
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  - JPN-140 1977 Camp Fuji Noise Survey
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  - JPN-005 1953 Osaka and Amagasaki Industrial Noise Survey
- o RAILWAY
  - JPN-064 1972 Environmental Agency of Japan Shinkansen Noise Survey
  - JPN-065 1972 New Tokaido and New Sanyo Shinkansen Railway Noise
  - JPN-101 1974 Sendai City Regular Railway Noise Survey
  - JPN-123 1975 Yokohama Road and Railway Noise Survey
  - JPN-139 1976 Japanese Road and Railway Noise Study
  - JPN-201 1975 Shinkansen Railway Survey
- o ROAD TRAFFIC
  - JPN-094 1973-1974 Sendai Road Traffic Noise Survey
  - JPN-123 1975 Yokohama Road and Railway Noise Survey
  - JPN-139 1976 Japanese Road and Railway Noise Study
  - JPN-140 1977 Camp Fuji Noise Survey
  - JPN-190 1956 Kyoto Traffic Noise Survey
  - JPN-292 Sapporo City Traffic Noise and Vibration Survey
  - JPN-294 Nagoya City 1980's Cumulative Noise Survey
- o Korea
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    - NET-115 1975 Schiphol and Marssum Aircraft Noise Insulation Survey
    - NET-149 1977 Schiphol and Marssum Sound Insulation Survey
    - NET-193 1976 Netherlands Military Airfields Noise Study
    - NET-196 1978 Dutch Homes for the Aged Environmental Noise Study
    - NET-240 1984 Schiphol Combined Aircraft/Road Traffic Survey
    - NET-269 1986 Netherlands Low-Level Military Aircraft Study
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    - NET-261 1977 Netherlands National Noise Survey
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    - NET-255 1982-83 CEC Impulse Noise Field Study (Netherlands Survey)
    - NET-260 1980-1981 Netherlands Pile Driver Impulse Noise Survey
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    - NET-196 1978 Dutch Homes for the Aged Environmental Noise Study
    - NET-232 1980 Netherlands Industrial Noise Survey
    - NET-257 1979 Netherlands Industrial Noise Pilot Survey

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- NET-259 1977 Netherlands Industrial Noise Pilot Survey
- NET-260 1980-1981 Netherlands Pile Driver Impulse Noise Survey
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  - NET-196 1978 Dutch Homes for the Aged Environmental Noise Study
  - NET-276 Netherlands Tram and Road Traffic Noise Survey
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  - NET-196 1978 Dutch Homes for the Aged Environmental Noise Study
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  - NET-258 1975 Amsterdam Home Sound Insulation Study
  - NET-276 Netherlands Tram and Road Traffic Noise Survey
  
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    - SPA-272 1981 Valencia City-Wide Survey
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    - SPA-274 1982 Valencia Single-Site Survey
    - SPA-313 1984-85 Gandía Three-Site Traffic Noise Survey
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    - SPA-315 1988 Pamplona Five-Site noise survey
    - SPA-316 1983 Valencia Traffic Noise Survey
    - SPA-317 1984 Gandía, City-wide Traffic Noise Survey

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- SWE-035 Scandinavian Nine-Airport Noise Study
- SWE-054 Trängslet Sonic Boom Study
- SWE-108 Burgsvik Sonic Boom Study
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- SWE-054 Trängslet Sonic Boom Study
- SWE-108 Burgsvik Sonic Boom Study
- SWE-222 Nausta Research Camp Sonic Boom Study

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- SWE-015 1964-1970 Karlstad Artillery Range Noise Study
- SWE-185 1975 Gothenburg Rifle Range Survey

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- SWE-165 1976 Gothenburg Tramway Noise Survey
- SWE-228 1978-80 Swedish Railway Study

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- SWE-021 1966-67 Stockholm and Gothenburg Traffic Study
- SWE-025 1967 Stockholm Comparative Traffic Noise Study
- SWE-026 1967 Huddinge New Motorway Study
- SWE-100 Kungälv Noise Barrier Study
- SWE-142 1976 Stockholm, Visby, Gothenburg Traffic Noise Study
- SWE-165 1976 Gothenburg Tramway Noise Survey
- SWE-223 Swedish Sleep Disturbance and Sound Insulation Study
- SWE-303 1986 Gothenburg Sleep Disturbance Pilot Survey

### □ Switzerland

#### ○ AIRCRAFT

- SWI-053 1971 Swiss Three-City Noise Survey
- SWI-180 1979 Swiss General Aviation Survey

#### ○ COMMUNITY

- SWI-304 1986 Swiss Multi-storey Building Sound Insulation Study

#### ○ INTERIOR

- SWI-304 1986 Swiss Multi-storey Building Sound Insulation Study

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- SWI-053 1971 Swiss Three-City Noise Survey
- SWI-133 1976 Zurich Street Traffic Noise (Apartments) Survey
- SWI-158 1977 Zurich Pilot Traffic Noise Survey
- SWI-159 Swiss N-3 Motorway Study
- SWI-173 1978 Zurich Time-of-Day Survey
- SWI-312 1984 Swiss Part of Visual Context of Noise Survey

### □ Turkey

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- TRK-283 1980-1984 Istanbul Noise Survey

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- TRK-283 1980-1984 Istanbul Noise Survey

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- UKD-008 1961 Heathrow Aircraft Noise Survey (First Heathrow Survey)
- UKD-024 1967 Heathrow Aircraft Noise Study (Second Heathrow Survey)
- UKD-033 1969 Mixed Road and Aircraft Noise Survey
- UKD-052 1971 Gatwick Airport Noise Survey
- UKD-061 1972 Heathrow Airport Noise Pilot Survey
- UKD-086 1973 Kew Aircraft Noise Survey
- UKD-097 1974 English Aircraft Noise Postal Survey
- UKD-111 1975-76 English Mental Health Pilot Survey
- UKD-112 Luton In-migrants Aircraft Noise Survey
- UKD-130 1976 Heathrow Concorde Noise Survey
- UKD-147 1977 Heathrow Nighttime Pilot Survey
- UKD-148 1977 West London (Heathrow) Psychiatric Morbidity Survey
- UKD-182 1979 Heathrow and Gatwick Sleep Study (Aircraft Noise and Sleep Disturbance)
  
- UKD-224 1982 Manchester Night Noise Survey
- UKD-225 1982 British Helicopter Disturbance Study
- UKD-238 1984 Glasgow Combined Aircraft/Road Traffic Survey
- UKD-241 1982 Heathrow Combined Aircraft/Road Traffic Survey
- UKD-242 1982 United Kingdom Aircraft Noise Index Study (ANIS study)
- UKD-243 1981 United Kingdom General Aviation Airport Survey
- UKD-305 1980-83 Noise Sensitivity Follow-up Survey
- UKD-309 1977 Hamble Airfield Survey

○ SONIC BOOM

- UKD-010 1963 Welsh Village Impulse Noise (Exercise Yellow Hammer)

○ COMMUNITY

- UKD-001 1943 British Home Noise Survey
- UKD-132 1976 Darlington Quiet Town Survey
- UKD-160 1977 Hampshire Village Noise Study
- UKD-199 1978 Darlington Quiet Town Survey
- UKD-296 1985 Great Britain Neighborhood Noise Survey

○ CONSTRUCTION

- UKD-074 1972 London Construction Site Survey

○ IMPULSE

- UKD-010 1963 Welsh Village Impulse Noise (Exercise Yellow Hammer)

○ INTERIOR

- UKD-001 1943 British Home Noise Survey
- UKD-003 1952 Sound Insulation in Flats Survey
- UKD-119 1975 Great Britain Interior Noise Survey
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- UKD-029 1968 Coventry Pilot Railway Noise Survey
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- UKD-080 1972 Loughborough Interrupted Traffic Flow Survey
- UKD-118 1975-76 London and Liverpool Panel Survey
- UKD-157 1977 London Area Panel Survey
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 CAN-078 1972 Calgary Noise Survey  
 CAN-079 1972 Toronto Community Noise Survey  
 UKD-080 1972 Loughborough Interrupted Traffic Flow Survey  
 USA-081 Boulder Newspaper Community Noise Survey  
 USA-082 1973 Los Angeles Airport Night Study  
 USA-083 1973 LAX Airport Noise Study  
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 USA-085 1973 Seattle-Tacoma Airport Noise Study  
 UKD-086 1973 Kew Aircraft Noise Survey  
 FRA-087 1973 St. Cyr L'Ecole General Aviation Noise Survey  
 USA-088 1973 U.S.C. Los Angeles Freeway Noise Study  
 USA-089 Portland-Multnomah Community Noise Survey  
 USA-090 1973 E.P.A. Community Noise Questionnaire Pilot Study  
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 CAN-174 1978 Canadian National Community Noise Survey (National Household  
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 POL-184 Polish Railway Noise Survey  
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 USA-186 1980 Bradley International Airport Noise Survey  
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 PUR-188 San Juan Community Noise Survey  
 FRA-189 1971 French Concorde Sonic Boom Study  
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 USA-191 1979 Philadelphia Aircraft Noise Survey  
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 NET-194 1976 Netherlands Railway Noise Survey  
 NET-195 1977-78 Netherlands New Railway Line Survey  
 NET-196 1978 Dutch Homes for the Aged Environmental Noise Study

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USA-203 1979 Burbank Aircraft Noise Change Study  
USA-204 1981 John Wayne Airport Operation Change Study  
USA-205 1980 Bellevue Airport Noise Study  
USA-206 1981 Alabama Three-Site Blast Noise Survey  
USA-207 1980 John Wayne Airport (Orange County) Survey  
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AUL-214 1978 Leichhardt Municipality Complaint Comparison Survey  
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SWE-222 Nausta Research Camp Sonic Boom Study  
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GER-231 Blast Furnace and Road Noise Study  
NET-232 1980 Netherlands Industrial Noise Survey  
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NET-261 1977 Netherlands National Noise Survey  
CAN-262 Canadian Party Wall Insulation Pilot Survey  
NET-263 1982-1983 Netherlands New Dwelling Survey  
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AUL-265 1980 Brisbane Traffic Noise Increase Survey  
UKD-266 1971-1972 Alton By-pass Study (Residents)  
UKD-267 Lake District A66 Traffic Change Study (Residents)  
UKD-268 TRRL Multiple-Site Road Traffic Flow Change Study (Residential)  
NET-269 1986 Netherlands Low-Level Military Aircraft Study  
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JPN-271 Japan Three-Site Construction Noise Survey  
SPA-272 1981 Valencia City-Wide Survey  
SPA-273 1982 Valencia Five-Site Survey  
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GER-275 1976-77 Darmstadt Movers Survey  
NET-276 Netherlands Tram and Road Traffic Noise Survey  
UKD-277 TRRL Four-Road Laboratory/Field Comparison Study  
GER-278 1980 German Shooting Range Survey  
CAN-279 1976 Toronto Freeway 401 Privacy Fence Survey  
CAN-280 1978 Etobicoke and Ottawa Noise Barrier Study  
GER-281 1976-1977 German Highway Noise Study  
GER-282 1979 Wuppertal and Düsseldorf Traffic Noise Barriers Study  
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UKD-297 1985 Follow-up of 1983 New Road Opening Survey  
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USA-299 1966 Edwards Air Force Base Resident Sonic Boom Survey  
USA-300 1975 Rutgers Freshmen Dormitory Noise Sensitivity Study  
USA-301 1982 Westchester Airport Nighttime Noise Change Study  
SPA-302 1986 Valencia Five-Site Survey  
SWE-303 1986 Gothenburg Sleep Disturbance Pilot Survey  
SWI-304 1986 Swiss Multi-storey Building Sound Insulation Study  
UKD-305 1980-83 Noise Sensitivity Follow-up Survey  
AUL-306 1988 New South Wales Power Station Survey  
AUL-307 198? Sydney Aircraft/Road traffic survey  
USA-308 1979 Salt Lake City Stationary Noise Source Survey  
UKD-309 1977 Hamble Airfield Survey  
USA-310 1972 Los Angeles Airport Relocated Residents Survey  
NOR-311 1989 Oslo Airport Survey  
SWI-312 1984 Swiss Part of Visual Context of Noise Survey  
SPA-313 1984-85 Gandia Three-Site Traffic Noise Survey  
SPA-314 1987-88 Gandia Beach Resort Traffic Noise Survey  
SPA-315 1988 Pamplona Five-Site noise survey  
SPA-316 1983 Valencia Traffic Noise Survey  
SPA-317 1984 Gandia, City-wide Traffic Noise Survey  
ITL-318 1967 Ferrara Comparative Traffic Noise Study



## COMMUNITY RESPONSE DATA ARCHIVE

Social surveys of community response to noise are being deposited in the ESRC Data Archive at the University of Essex, England. This archive is supported by the Economic and Social Research Council (formerly the SSRC, Social Science Research Council). The ESRC Survey Archive serves as a general repository for several thousand machine-readable social science data sets. Thus far at least 24 noise surveys have been deposited in the archive. These surveys are available from the archive now, though many have not yet been fully processed. The archive provides a service for both depositors and users of noise surveys.

Depositors submit their data in a machine-readable form. After processing the data, the archive standardizes the data format and the survey documentation. A standardized code book is prepared if a request is made to access a data set. Professional archiving practices are followed to provide a high degree of security of the data: three copies are made of each data set, data sets are regularly checked, and copies of data sets are stored in separate locations. The depositor has the option of retaining complete control over access to the data. The major advantage for the depositor is the knowledge that the data will be saved for future use.

Users of the data find the archive is an efficient way to obtain another study's data because clear documentation is available, the data have already been checked for obvious problems, and the data can be provided in a format which is compatible with most local computer installations. While the ESRC Data Archive cannot eliminate all problems in the analysis of such data, it does very substantially reduce these problems. Users pay a fee for these materials. The archive publishes a newsletter as well as an inventory of surveys.

The list on the following pages includes all noise surveys from this catalog which had been deposited in the ESRC Data Archive as of March of 1990. Both the ESRC and the NASA Survey Identification Number are given. Surveys are ordered in ascending order by the NASA Survey Identification Number.

Interested depositors and users may directly contact the ESRC Data Archive at the following address:

ESRC Data Archive  
University of Essex  
Wivenhoe Park  
Colchester, Essex CO4 3SQ  
United Kingdom

Telephone: 0206 872001  
Fax: 0206 872003



LIST OF ARCHIVED DATA SETS

ESRC Archive Number	Title in ESRC Archive	NASA Catalog Number
1787	NAL survey of aircraft noise in Australia	AUL-210
1399	1975 Western Ontario University traffic noise survey	CAN-120
1355	Community response to road traffic noise in the Toronto-Hamilton corridor	CAN-121
1356	Aircraft noise around Toronto International and other Southern Ontario airports	CAN-168
1418	French urban expressways noise	FRA-092
1426	Zurich vicinity time of day traffic noise survey	SWI-173
1291	Aircraft noise annoyance around London (Heathrow) airport (NOTE: Noise levels are not available for this 1961 survey)	UKD-008
1006	Noise annoyance in central London	UKD-009
1539	Second survey of aircraft noise annoyance around London (Heathrow) airport	UKD-042
1403	Building Research Station London traffic noise survey	UKD-071
992	Road traffic and the environment	UKD-072
1400	British national railway noise survey	UKD-116
1402	Heathrow Concorde noise survey	UKD-130
1410	Aircraft noise and prevalence of psychiatric disorders	UKD-148
1411	London area noise panel survey	UKD-157
1408	Rural noise survey	UKD-160
1487	Aircraft noise and sleep disturbance	UKD-182
2019	Community and individual response as a function of traffic exposure	UKD-237
2078	UK aircraft noise index study	UKD-242
719	Lake District: people, roads and countryside	UKD-267



<u>ESRC Archive Number</u>	<u>Title in ESRC Archive</u>	<u>NASA Catalog Number</u>
1527	Solent study	UKD-309
1280	USA TRACOR aircraft noise studies	USA-022 USA-032 USA-044
1401	Los Angeles International Airport night study	USA-082
1404	USA 24 site community noise survey	USA-102



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This bibliography includes all works referenced in this report. It does not include all the review publications in which a study has been cited or discussed. The availability of English translations is noted. Entries are ordered by authors' last names and, within authors, by date of publication. The survey identification number follows each entry.



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16. Abstract This report identifies all social surveys of residents' reactions to environmental noise in residential areas which have been described in English language publications from 1943 to 1989. A total of 318 surveys are described. The surveys are indexed by country, noise source and date of survey. The publications and reports from each survey are listed in a bibliography. Twenty-four surveys are listed which are available for secondary analysis from a data archive.					
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